

**WILDLIFE BIOMONITORING AT THE ANACONDA SMELTER SITE  
DEER LODGE COUNTY, MONTANA**

**FINAL REPORT – APPENDIX TABLES**

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## **6 SMALL MAMMAL APPENDIX TABLES**

**Table 6-1A.** Operating parameters for the Graphite furnace used during analyses of year 2 samples from the Anaconda Smelter.

Parameter	Arsenic		Cadmium		Lead	
Wavelength	193.7		228.8		283.3	
Slit Width	0.7		0.7		0.7	
Read Time (s)	3.0		5.0		5.0	
Initial Temp and time	20°C	0	20°C	0	20 °C	0
Dehydration Temp and Time	110 °C	30	110 °C	20	110 °C	30
Acid Evap Temp and Time	150 °C	30	150 °C	20	150 °C	30
Ashing Temp and Time	500 °C 1200 °C	15 20	700 °C	20	850 °C	20
Analysis Temp and Time	2000 °C	3	1500 °C	3	1600 °C	5
Clean out Temp	2400 °C	2	2000°C	3	2000 °C	3

**Table 6-2A.** Concentrations of calibration standards used for GFAA analyses of biological tissues from the Anaconda Smelter.

Standard level	Arsenic (µg/L)	Cadmium (µg/L)	Lead (µg/L)
1	5.0	0.25	5.0
2	10.0	0.50	10.0
3	20.0	1.0	20.0
4	50.0	5.0	50.0
5	100.0	10.0	100.0

**Table 6-3A.** Detection and reporting limits for metals data in biological tissues of mammals

Species / Sample	Average Sample Mass	As μg/g	Cd μg/g	Zn μg/g	Pb μg/g	Cu μg/g
<b><u>Detection Limits 1999</u></b>						
<b>Deer Mouse</b>						
Blood	0.485	1.399	0.103	0.321	0.635	0.211
Liver	0.678	1.001	0.074	0.230	0.454	0.151
Kidney	0.149	4.542	0.336	1.044	2.062	0.686
Food	0.565	1.201	0.089	0.276	0.545	0.181
Whole Body	13.395	0.051	0.004	0.012	0.023	0.008
Fetus	1.185	0.573	0.042	0.132	0.260	0.087
Mammary	0.738	0.920	0.068	0.211	0.418	0.139
<b>Microtis</b>						
Blood	0.469	1.447	0.107	0.332	0.657	0.219
Liver	0.884	0.768	0.057	0.176	0.349	0.116
Kidney	0.184	3.691	0.273	0.848	1.676	0.558
Food	0.919	0.738	0.055	0.170	0.335	0.112
Whole Body	21.440	0.032	0.002	0.007	0.014	0.005
Fetus	1.554	0.437	0.032	0.100	0.198	0.066
Mammary	1.185	0.573	0.042	0.132	0.260	0.087
<b>Gopher</b>						
Blood	1.117	0.608	0.045	0.140	0.276	0.092
Liver	1.482	0.458	0.034	0.105	0.208	0.069
Kidney	0.202	3.356	0.248	0.771	1.524	0.507
Food	NA	NA	NA	NA	NA	NA
Whole Body	48.364	0.014	0.001	0.003	0.006	0.002
Mammary	0.605	1.123	0.083	0.258	0.510	0.170
<b>Deer Mouse Opportunistic</b>						
Liver	1.036	0.328	0.024	0.075	0.149	0.049
Kidney	0.130	2.613	0.193	0.600	1.186	0.395
<b>Gopher Opportunistic</b>						
Liver	0.980	0.346	0.026	0.080	0.157	0.052
Kidney	0.297	1.143	0.085	0.263	0.519	0.173
<b>Shrew Opportunistic</b>						
Liver	0.133	0.142	0.011	0.033	0.065	0.021
Kidney	0.058	5.852	0.433	1.345	2.657	0.884
Whole Body	2.386	0.711	0.053	0.163	0.323	0.107
<b>Chipmunk Opportunistic</b>						
Liver	1.654	0.205	0.015	0.047	0.093	0.031
Kidney	0.208	1.632	0.121	0.375	0.741	0.247
<b>Fox Opportunistic</b>						
Blood	7.777	0.044	0.003	0.010	0.020	0.007
Liver	0.996	0.341	0.025	0.078	0.155	0.052
Kidney	0.397	0.854	0.063	0.196	0.388	0.129

Continued

**Table 6-3A.** Continued.

Species / Sample	Average Sample Mass	As µg/g	Cd µg/g	Zn µg/g	Pb µg/g	Cu µg/g
<b>Reporting Limits 1999</b>						
<b>Deer Mouse</b>						
Blood	0.485	0.699	0.052	0.161	0.318	0.106
Liver	0.678	0.501	0.037	0.115	0.227	0.076
Kidney	0.149	2.271	0.168	0.522	1.031	0.343
Food	0.565	0.600	0.044	0.138	0.273	0.091
Whole Body	13.395	0.025	0.002	0.006	0.012	0.004
Fetus	1.185	0.286	0.021	0.066	0.130	0.043
Mammary	0.738	0.460	0.034	0.106	0.209	0.070
<b>Microtis</b>						
Blood	0.469	0.723	0.053	0.166	0.328	0.109
Liver	0.884	0.384	0.028	0.088	0.174	0.058
Kidney	0.184	1.846	0.136	0.424	0.838	0.279
Food	0.919	0.369	0.027	0.085	0.168	0.056
Whole Body	21.440	0.016	0.001	0.004	0.007	0.002
Fetus	1.554	0.218	0.016	0.050	0.099	0.033
Mammary	1.185	0.286	0.021	0.066	0.130	0.043
<b>Gopher</b>						
Blood	1.117	0.304	0.022	0.070	0.138	0.046
Liver	1.482	0.229	0.017	0.053	0.104	0.035
Kidney	0.202	1.678	0.124	0.386	0.762	0.254
Food	NA	NA	NA	NA	NA	NA
Whole Body	48.364	0.007	0.001	0.002	0.003	0.001
Mammary	0.605	0.561	0.042	0.129	0.255	0.085
<b>Deer Mouse Opportunistic</b>						
Liver	1.036	0.328	0.024	0.075	0.149	0.049
Kidney	0.130	2.613	0.193	0.600	1.186	0.395
<b>Shrew Opportunistic</b>						
Liver	0.133	0.142	0.011	0.033	0.065	0.021
Kidney	0.058	5.852	0.433	1.345	2.657	0.884
Whole Body	2.386	0.711	0.053	0.163	0.323	0.107
<b>Gopher Opportunistic</b>						
Liver	0.980	0.346	0.026	0.080	0.157	0.052
Kidney	0.297	1.143	0.085	0.263	0.519	0.173
<b>Chipmunk Opportunistic</b>						
Liver	1.654	0.205	0.015	0.047	0.093	0.031
Kidney	0.208	1.632	0.121	0.375	0.741	0.247
<b>Fox Opportunistic</b>						
Blood	7.777	0.044	0.003	0.010	0.020	0.007
Liver	0.996	0.341	0.025	0.078	0.155	0.052
Kidney	0.397	0.854	0.063	0.196	0.388	0.129

Continued

**Table 6-3A.** Continued.

Species / Sample	Average Sample Mass	As μg/g	Cd Mg/g	Zn μg/g	Pb μg/g	Cu μg/g
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**Detection Limits 2000**

**Deer Mouse**

Blood	0.4475	0.112	0.006	0.349	0.112	0.229
Kidney	0.1522	0.329	0.016	1.025	0.329	0.674

**Gopher**

Blood	1.536	0.033	0.002	0.102	0.033	0.067
Liver	2.0509	0.024	0.001	0.076	0.024	0.050
Kidney	0.1845	0.271	0.014	0.845	0.271	0.556

**Reporting Limits 2000**

**Deer Mouse**

Blood	0.4475	0.056	0.003	0.174	0.056	0.115
Kidney	0.1522	0.164	0.008	0.512	0.164	0.337

**Gopher**

Blood	1.536	0.016	0.001	0.051	0.016	0.033
Liver	2.0509	0.012	0.001	0.038	0.012	0.025
Kidney	0.1845	0.136	0.007	0.423	0.136	0.278





**Table 6-8A:** Soil Residues of Naturally Vegetated Sites.

Site	Sample Id	Arsenic	Cadmium	Copper	Lead	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
L1	SML1C1	101	1.3	155	40.1	98.6
L1	SML1C2	84.1	1.4	146	37.8	89.9
L1	SML1C3	84.7	1	129	39.3	79.8
L1	SML1C4	111	0.72	160	67.7	91.6
L1	SML1NB01	114	1.3	162	52.5	104
L1	SML1NB02	109	1.5	166	57.9	115
L1	SML1NB03	114	1.4	161	56	101
L1	SML1NB04	84.8	1.7	157	60.4	104
L1	SML1NB05	105	1.3	157	48.2	108
L1	SML1NB06	124	0.53	148	56.7	86.5
L1	SML1NB07	101	1.7	184	59.4	132
L1	SML1NB08	114	1.5	154	47.4	101
L1	SML1NB09	102	1.5	142	56.2	115
L1	SML1NB10	106	1.3	135	43.3	95.6
L1	SML1NB11	155	2	203	90.2	150
L1	SML1NB12	91.9	1.1	142	41.5	89.7
L1	SML1NB13	185	1.6	239	103	131
L1	SML1NB14	44	1	88.4	35.6	55.5
L1	SML1NB15	75	1	105	28.3	71.7
L1	SML1NB16	117	0.77	142	51.3	91
L1	SML1NB17	103	1	171	52.3	99.5
L1	SML1NB18	123	1.5	159	66.4	110
L1	SML1NB19	102	1.4	134	49.3	96.1
L1	SML1NB20	70.9	1	114	38.6	77.5
L1		N	24	24	24	24
		MEAN	105.0583	1.271667	152.225	53.30833
		MAX	185	2	239	103
		MIN	44	0.53	88.4	28.3
		STD	27.41888	0.347096	30.43078	16.72447
						20.22226

Continued

**Table 6-8A.** Continued

Site	Sample Id	Arsenic	Cadmium	Copper	Lead	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
L2	SML2C1	92.2	2.3	238	101	183
L2	SML2C2	53.2	0.84	121	32.1	92.7
L2	SML2C3	95.7	1.1	159	68.4	110
L2	SML2C4	14.6	0.06	34.1	7.2	27
L2	SML2NB01	109	0.75	188	64.6	115
L2	SML2NB02	111	1.1	222	64	120
L2	SML2NB03	109	1.6	191	58.1	136
L2	SML2NB04	155	3	225	86.4	146
L2	SML2NB05	95.3	1.3	174	65.6	139
L2	SML2NB06	48.6	1.1	155	44.1	121
L2	SML2NB07	53.9	1.5	132	46.2	115
L2	SML2NB08	116	0.56	179	60	113
L2	SML2NB09	108	9.9	189	77.3	131
L2	SML2NB10	107	1.5	181	67.9	123
L2	SML2NB11	106	1.1	162	60.1	116
L2	SML2NB12	83.5	1.5	164	64.1	138
L2	SML2NB13	74.2	2	166	61.1	142
L2	SML2NB14	46.7	0.41	86.7	18.9	61.2
L2	SML2NB15	29.4	0.64	54.3	20.5	61.1
L2	SML2NB16	87.4	2.2	199	69.4	152
L2	SML2NB17	220	2	274	117	167
L2	SML2NB18	54.9	1.1	105	41	97.4
L2	SML2NB19	104	1.1	193	91.2	110
L2	SML2NB20	116	1.6	224	136	126
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L2		N	24	24	24	24
		MEAN	91.275	1.6775	167.3375	63.425
		MAX	220	9.9	274	136
		MIN	14.6	0.06	34.1	7.2
		STD	42.66446	1.871838	56.70483	29.72746
						33.98068
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M1	SMM1C1	462	24	1070	411	673
M1	SMM1C2	593	26.1	1180	552	490
M1	SMM1C3	751	35.6	1910	702	735
M1	SMM1C4	789	38.8	2110	736	829
M1	SMM1C5	669	30.3	1010	401	694
M1	SMM1NB01	542	25	1070	559	653
M1	SMM1NB02	593	27.9	1300	618	653
M1	SMM1NB03	655	35.5	1300	621	814

Continued

**Table 6-8A.** Continued

Site	Sample Id	Arsenic	Cadmium	Copper	Lead	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
M1	SMM1NB04	1170	39.1	1930	1080	927
M1	SMM1NB05	816	38.1	2040	810	763
M1	SMM1NB06	846	31.9	1420	586	783
M1	SMM1NB07	190	19	931	253	530
M1	SMM1NB08	1520	36.6	2380	1760	1080
M1	SMM1NB09	769	28.8	1140	530	701
M1	SMM1NB10	1140	45	2180	1030	1110
M1	SMM1NB11	1810	112	4370	2030	2460
M1	SMM1NB12	604	41.1	1440	681	1040
M1	SMM1NB13	997	51.9	2040	868	1370
M1	SMM1NB14	881	36.9	1600	659	747
M1	SMM1NB15	1050	31.6	2460	687	722
M1	SMM1NB16	487	30.5	704	322	642
M1	SMM1NB17	210	14.1	604	236	385
M1	SMM1NB18	480	28.3	1480	615	628
M1	SMM1NB19	766	23.5	1360	765	633
M1	SMM1NB20	762	28.8	1570	715	679
		N	25	25	25	25
		MEAN	782.08	35.216	1623.96	729.08
		MAX	1810	112	4370	2030
		MIN	190	14.1	604	236
		STD	363.0297	17.98061	765.0283	408.6424
						400.0659
M2	SMM2C1	295	10.9	692	181	236
M2	SMM2C2	793	10.7	1310	499	328
M2	SMM2C3	900	13.2	1720	519	389
M2	SMM2C4	282	10.1	584	171	275
M2	SMM2C5	149	8.7	320	94.8	258
M2	SMM2NB01	244	9.3	556	233	236
M2	SMM2NB02	232	7.8	512	211	196
M2	SMM2NB03	275	11.2	700	276	234
M2	SMM2NB04	354	9.3	713	312	232
M2	SMM2NB05	250	7.4	744	326	215
M2	SMM2NB06	233	5.8	505	275	166
M2	SMM2NB07	221	3.8	344	193	131
M2	SMM2NB08	545	9.2	970	302	252
M2	SMM2NB09	735	19.2	1710	837	480
M2	SMM2NB10	367	23.1	845	251	461

Continued

**Table 6-8A.** Continued

Site	Sample Id	Arsenic	Cadmium	Copper	Lead	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
M2	SMM2NB11	508	20.6	958	309	373
M2	SMM2NB12	604	15.2	1390	386	366
M2	SMM2NB13	312	16.6	705	177	317
M2	SMM2NB14	445	16.7	1080	500	366
M2	SMM2NB15	284	15.3	305	56	295
M2	SMM2NB16	292	20.2	488	189	463
M2	SMM2NB17	640	11.3	1230	378	284
M2	SMM2NB18	414	9	862	450	283
M2	SMM2NB19	499	4.7	752	370	192
M2	SMM2NB20	433	8.9	735	289	239
M2		N	25	25	25	25
		MEAN	412.24	11.928	829.2	311.392
		MAX	900	23.1	1720	837
		MIN	149	3.8	305	56
		STD	197.1229	5.161033	392.0675	163.5477
						93.12434
H1	SMH1C1	2900	142	6570	3370	5660
H1	SMH1C2	1950	98.7	4450	2750	3870
H1	SMH1C3	1330	42	2360	1390	1560
H1	SMH1C4	1340	63.7	3240	1220	2390
H1	SMH1NB01	1050	50.1	1650	837	1740
H1	SMH1NB02	1110	41.3	2140	1240	1860
H1	SMH1NB03	1420	56.1	5240	1610	2170
H1	SMH1NB04	1310	70.9	3360	1770	2460
H1	SMH1NB05	793	36.6	1880	610	1290
H1	SMH1NB06	828	48.8	3050	957	1440
H1	SMH1NB07	532	53.2	1440	673	1760
H1	SMH1NB08	759	65.9	2100	1100	1850
H1	SMH1NB09	1830	82.4	3610	2160	3000
H1	SMH1NB10	275	5.9	201	86	920
H1	SMH1NB11	939	99.9	2580	897	1640
H1	SMH1NB12	1890	125	6780	3370	3800
H1	SMH1NB13	1840	88	4690	2410	3100
H1	SMH1NB14	463	30.3	1470	215	1690
H1	SMH1NB15	790	75.4	2760	1100	1820
H1	SMH1NB16	681	43.6	1890	486	2190
H1	SMH1NB17	2250	165	6700	3650	5190
H1	SMH1NB18	875	53.8	2460	931	2890

Continued

**Table 6-8A.** Continued

Site	Sample Id	Arsenic	Cadmium	Copper	Lead	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H1	SMH1NB19	1330	73.8	3820	1220	2640
H1	SMH1NB20	353	4	171	85.5	1370
H1		N 24	24	24	24	24
		MEAN 1201.583	67.35	3108.833	1422.396	2429.167
		MAX 2900	165	6780	3650	5660
		MIN 275	4	171	85.5	920
		STD 647.8791	38.67719	1853.966	1032.45	1192.888
H2	SMH2C1	1670	56.2	3150	1020	1320
H2	SMH2C2	952	44.4	1940	525	1450
H2	SMH2C3	1610	81.9	6600	1740	1870
H2	SMH2C4	706	26.7	2580	631	793
H2	SMH2C5	295	16.6	918	264	577
H2	SMH2NB01	847	44.6	2090	599	1380
H2	SMH2NB02	804	39.5	2270	653	1120
H2	SMH2NB03	1080	48.9	3730	934	1240
H2	SMH2NB04	661	33.8	2590	598	824
H2	SMH2NB05	771	43.2	2520	662	964
H2	SMH2NB06	709	24.8	1970	614	689
H2	SMH2NB07	439	20.9	1870	358	652
H2	SMH2NB08	440	15.7	698	176	772
H2	SMH2NB09	1100	48.1	4430	1100	1020
H2	SMH2NB10	753	38.6	2690	807	978
H2	SMH2NB11	1070	40.8	2330	676	994
H2	SMH2NB12	966	32.7	2450	697	784
H2	SMH2NB13	469	19.2	1070	332	598
H2	SMH2NB14	329	10.7	724	240	389
H2	SMH2NB15	760	40.8	2290	648	961
H2	SMH2NB16	1130	42.8	3070	1060	1020
H2	SMH2NB17	377	15.9	1370	367	485
H2	SMH2NB18	194	11.8	846	131	465
H2	SMH2NB19	663	48.9	2120	595	1450
H2	SMH2NB20	319	17.8	972	229	827
H2		N 25	25	25	25	25
		MEAN 764.56	34.612	2291.52	626.24	944.88
		MAX 1670	81.9	6600	1740	1870
		MIN 194	10.7	698	131	389
		STD 380.1544	16.75926	1298.851	357.6717	359.0731

**Table 6-9A:** Soil Residues of Remediated Sites

Site	Sample Id	Arsenic	Cadmium	Copper	Lead	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ANARTS	SMANARTSNB01	161	9.1	2490	163	1100
ANARTS	SMANARTSNB02	148	8.2	2800	139	977
ANARTS	SMANARTSNB03	442	13.1	3450	303	2660
ANARTS	SMANARTSNB06	866	15.6	3630	533	5200
ANARTS	SMANARTSNB08	842	12.3	2670	575	5590
ANARTS	SMANARTSNB09	570	17.2	4120	357	3770
ANARTS	SMANARTSNB13	477	13.6	3440	329	3120
ANARTS	SMANARTSNB15	744	15.5	3550	494	5090
ANARTS	SMANARTSNB19	954	14.6	3180	607	5950
ANARTS	SMANARTSNB20	876	12.6	3130	567	5470
ANARTS		N	10	10	10	10
		MEAN	608	13.18	3246	406.7
		MAX	954	17.2	4120	607
		MIN	148	8.2	2490	139
		STD	296.0717	2.83149	494.7547	172.5714
						1861.179
OPARTS	SMOPARTSNB	121	0.2	425	325	257
OPARTS	SMOPARTSNB01	148	0.35	762	374	399
OPARTS	SMOPARTSNB03	90.8	0.21	263	220	199
OPARTS	SMOPARTSNB06	116	0.21	414	305	200
OPARTS	SMOPARTSNB09	954	5.3	2280	711	5810
OPARTS	SMOPARTSNB13	765	4.6	1820	601	5390
OPARTS	SMOPARTSNB15	219	0.29	598	458	812
OPARTS	SMOPARTSNB18	409	1.2	1010	464	2450
OPARTS	SMOPARTSNB19	409	1.5	1190	416	2550
OPARTS	SMOPARTSNB20	477	1.7	1200	476	2920
OPARTS		N	10	10	10	10
		MEAN	370.88	1.556	996.2	435
		MAX	954	5.3	2280	711
		MIN	90.8	0.2	263	220
		STD	295.9202	1.884246	651.6896	143.7938
						2128.076

Continued

**Table 6-9A.** Continued

Site	Sample Id	Arsenic	Cadmium	Copper	Lead	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SMARTS	SMARTSNB03	1710	50.8	908	441	748
SMARTS	SMARTSNB04	792	16.3	734	233	636
SMARTS	SMARTSNB05	965	49.7	529	375	571
SMARTS	SMARTSNB06	1800	58.7	903	414	1110
SMARTS	SMARTSNB11	311	8.6	332	110	394
SMARTS	SMARTSNB12	446	12.6	530	174	505
SMARTS	SMARTSNB13	626	16.8	660	234	721
SMARTS	SMARTSNB14	867	21.3	807	252	877
SMARTS	SMARTSNB19	789	22.7	652	256	615
SMARTS	SMARTSNB20	694	14.8	660	264	1000
SMARTS		N	10	10	10	10
		MEAN	900	27.23	671.5	275.3
		MAX	1800	58.7	908	441
		MIN	311	8.6	332	110
		STD	490.572	18.41002	178.893	104.7527
						223.2746
SMARCO	SMARCONB01	1110	10.7	1030	479	2110
SMARCO	SMARCONB02	1280	12.4	1010	388	1590
SMARCO	SMARCONB07	883	10.4	953	317	2140
SMARCO	SMARCONB08	569	15.2	865	251	1660
SMARCO	SMARCONB09	2060	10.8	1320	387	1970
SMARCO	SMARCONB10	379	4.3	793	262	1740
SMARCO	SMARCONB15	641	6.3	814	297	2080
SMARCO	SMARCONB16	496	4	704	233	1970
SMARCO	SMARCONB17	857	9.1	702	235	924
SMARCO	SMARCONB18	548	9.5	809	265	2110
SMARCO		N	10	10	10	10
		MEAN	882.3	9.27	900	311.4
		MAX	2060	15.2	1320	479
		MIN	379	4	702	233
		STD	502.0301	3.527684	186.8392	81.74241
						375.6524

**Table 6-10A.** Stomach content metal and As concentration. Anaconda Smelter Site, 1999.  
BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<b>Gopher</b>									
R1999-0020	gopher	9901	anarts	1	4.113	0.223	5.819	51.149	45.637
R1999-0015	gopher	03	medium	1	4.122	0.475	1.556	7.895	35.881
<b>Meadow Vole</b>									
R1999-0025	mp	0045	anarts	1	1.904	0.109	2.050	26.288	41.906
R1999-0031	mp	0034	H1	1	4.905	0.696	5.596	11.359	72.681
R1999-0038	mp	0053	H2	1	3.844	1.199	6.203	43.256	96.759
R1999-0045	mp	0110	L2	1	3.206	0.232	7.594	25.652	47.752
R1999-0052	mp	0032	M2		8.409	1.687	6.148	21.387	86.212
R1999-0053	mp	0034	M2		1.185	0.350	1.337	5.488	22.383
			M2	2	Mean 4.797	1.019	3.743	13.437	54.298
					SD 5.108	0.945	3.402	11.242	45.134
					n 2	2	2	2	2
R1999-0077	mp	0103	smarco	1	37.016	BDL	13.645	40.866	78.542
R1999-0093	mp	0025	smarts		12.319	0.558	1.762	5.439	24.866
R1999-0112	mp	0134	smarts		BDL	0.036	BDL	1.729	27.749
R1999-0116	mp	0142	smarts		45.871	0.631	3.468	9.926	19.343
R1999-0117	mp	0414	smarts		7.353	BDL	BDL	15.626	18.139
R1999-0400	mp	0103	smarts		2.160	0.120	3.353	5.704	10.508
			smarts	5	Mean 16.926	0.336	2.861	7.685	20.121
					SD 19.738	0.301	0.953	5.304	6.664
					n 4	4	3	5	5

Continued

**Table 6-10A.** Continued

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<b><u>Deer Mouse</u></b>									
R1999-0121	pm	0041	anarts		BDL	BDL	BDL	7.080	168.026
R1999-0125	pm	0105	anarts		BDL	0.285	1.418	34.804	51.213
R1999-0134	pm	9901	anarts		23.807	0.317	16.086	56.482	190.889
R1999-0122	pm	0045	anarts		4.678	0.259	3.906	21.222	39.764
R1999-0135	pm	9902	anarts		BDL	BDL	BDL	350.857	278.286
			anarts	5	Mean 14.243	0.287	7.137	94.089	145.636
					SD 13.526	0.029	7.850	144.688	100.337
					n 2	3	3	5	5
R1999-0157	pm	0123	H1		0.733	0.067	1.290	4.730	17.245
R1999-0144	pm	0022	H1		BDL	BDL	0.720	4.258	15.451
R1999-0167	pm	0150	H1		BDL	BDL	1.346	7.835	19.171
R1999-0169	pm	9901	H1		BDL	BDL	1.991	6.429	17.827
			H1	4	Mean 0.733	0.067	1.337	5.813	17.424
					SD -	-	0.520	1.639	1.543
					n 1	1	4	4	4
R1999-0200	pm	9904	H2		2.080	0.256	2.379	25.829	35.034
R1999-0202	pm	9906	H2		1.763	0.097	0.590	6.430	22.667
R1999-0197	pm	9901	H2		2.729	0.124	2.302	12.229	25.103
R1999-0198	pm	9902	H2		2.870	0.174	2.216	12.443	22.355
R1999-0199	pm	9903	H3		BDL	BDL	18.918	6.802	15.284
R1999-0201	pm	9905	H2		1.239	BDL	1.398	7.961	28.063
			H2	6	Mean 2.136	0.163	4.634	11.949	24.751
					SD 0.678	0.070	7.032	7.291	6.581
					n 5	4	6	6	6
R1999-0211	pm	0114	L1		2.166	BDL	2.440	10.178	23.529
R1999-0227	pm	9902	L1		BDL	BDL	0.532	3.760	23.380
R1999-0228	pm	9903	L1		BDL	BDL	0.742	2.573	14.027
R1999-0229	pm	9904	L1		BDL	BDL	0.923	3.935	18.178
R1999-0230	pm	9905	L1		BDL	0.034	0.483	3.597	15.086
R1999-0233	pm	9908	L1		6.462	BDL	3.516	12.789	28.651
R1999-0234	pm	9909	L1		BDL	BDL	BDL	11.525	34.186
R1999-0236	pm	9911	L1		BDL	BDL	BDL	BDL	77.260
R1999-0238	pm	9913	L1		3.699	0.099	2.407	11.435	27.062
R1999-0239	pm	9914	L1		BDL	BDL	0.705	10.096	26.097

Continued

**Table 6-10A.** Continued

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
R1999-0240	pm	9915	L1		1.684	0.122	1.347	9.310	19.073	
R1999-0226	pm	9901	L1		BDL	BDL	1.633	33.304	46.327	
R1999-0231	pm	9906	L1		6.993	0.262	6.247	20.796	38.317	
R1999-0232	pm	9907	L1		BDL	BDL	BDL	2.811	17.874	
R1999-0235	pm	9910	L1		BDL	0.284	1.193	9.767	20.496	
R1999-0237	pm	9912	L1		BDL	BDL	BDL	82.125	97.139	
			L1	16	Mean	4.201	0.160	1.847	15.200	32.918
					SD	2.431	0.108	1.665	20.164	23.157
					n	5	5	12	15	16
R1999-0249	pm	0033	L2		1.491	BDL	1.505	9.338	39.204	
R1999-0250	pm	0034	L2		10.706	1.188	2.142	8.846	73.284	
R1999-0252	pm	0052	L2		BDL	BDL	BDL	0.733	3.436	
R1999-0258	pm	0130	L2		BDL	BDL	BDL	7.597	17.753	
R1999-0272	pm	9904	L2		BDL	BDL	3.021	3.269	15.422	
R1999-0273	pm	9905	L2		BDL	BDL	10.735	9.446	20.138	
R1999-0275	pm	9908	L2		BDL	BDL	BDL	9.697	27.115	
R1999-0255	pm	0110	L2		BDL	BDL	0.368	5.859	19.691	
R1999-0269	pm	9901	L2		BDL	BDL	2.689	9.058	23.513	
R1999-0270	pm	9902	L2		BDL	BDL	0.847	11.508	38.317	
R1999-0271	pm	9903	L2		BDL	BDL	BDL	2.724	16.581	
R1999-0274	pm	9907	L2		BDL	BDL	16.045	7.214	27.741	
R1999-0276	pm	9906	L2		BDL	0.201	1.813	14.001	49.202	
			L2	13	Mean	6.098	0.694	4.352	7.638	28.569
					SD	6.516	0.698	5.357	3.692	17.974
					n	2	2	9	13	13
R1999-0277	pm	0025	M1		17.431	0.739	25.475	72.148	109.242	
R1999-0292	pm	0130	M1		12.817	BDL	9.572	26.356	60.665	
R1999-0301	pm	0222	M1		6.132	0.239	5.804	19.385	78.443	
R1999-0307	pm	9902	M1		1.402	BDL	1.467	7.026	24.447	
R1999-0308	pm	9903	M1		BDL	BDL	2.687	7.659	32.433	
R1999-0309	pm	9904	M1		BDL	BDL	1.755	9.346	24.721	
R1999-0294	pm	0144	M1		BDL	BDL	3.329	12.410	34.948	
R1999-0306	pm	9901	M1		9.556	0.728	6.326	28.211	58.627	
R1999-0310	pm	9905	M1		12.650	0.604	14.312	42.295	46.486	
R1999-0311	pm	9906	M1		3.936	0.205	3.653	15.204	54.398	
			M1	10	Mean	9.132	0.503	7.438	24.004	52.441
					SD	5.639	0.262	7.474	20.219	26.470
					n	7	5	10	10	10

Continued

**Table 6-10A.** Continued

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0331	pm	9901	M2		3.816	0.147	13.729	15.451	18.689	
R1999-0332	pm	9902	M2		10.046	0.351	9.454	17.681	32.454	
R1999-0333	pm	9903	M2		4.125	0.580	1.551	66.848	53.996	
R1999-0334	pm	9904	M2		2.739	0.232	2.617	12.045	62.251	
R1999-0335	pm	9905	M2		37.293	0.932	7.541	40.598	102.026	
R1999-0336	pm	9906	M2		3.717	0.103	2.953	15.267	34.119	
			M2	6	Mean	10.290	0.391	6.308	27.982	50.589
					SD	13.486	0.316	4.775	21.673	29.702
					n	6	6	6	6	6
R1999-0337	pm	0013	oparts		BDL	BDL	BDL	BDL	BDL	
R1999-0338	pm	0021	oparts		BDL	BDL	1.231	17.457	34.193	
R1999-0341	pm	9902	oparts		2.364	0.230	4.888	32.328	110.477	
R1999-0343	pm	9904	oparts		BDL	BDL	4.110	15.520	26.790	
R1999-0340	pm	9901	oparts		0.854	BDL	5.196	12.008	25.504	
R1999-0342	pm	9903	oparts		1.207	0.134	3.077	29.859	47.635	
			oparts	6	Mean	1.475	0.182	3.700	21.434	48.920
					SD	0.790	0.068	1.605	9.073	35.517
					n	3	2	5	5	5
R1999-0344	pm	0012	sмарко		19.578	BDL	7.019	51.174	68.294	
R1999-0345	pm	0013	sмарко		4.820	0.085	0.895	15.084	32.978	
R1999-0348	pm	0032	sмарко		BDL	BDL	BDL	BDL	BDL	
R1999-0358	pm	0150	sмарко		31.483	0.318	6.597	24.234	41.978	
R1999-0359	pm	0153	sмарко		3.936	BDL	1.304	18.080	28.649	
R1999-0360	pm	0201	sмарко		4.296	BDL	2.152	9.418	33.054	
R1999-0361	pm	01525	sмарко		16.549	0.349	8.213	25.918	64.113	
R1999-0350	pm	0042	sмарко		6.934	BDL	11.157	32.855	86.233	
R1999-0356	pm	0130	sмарко		12.660	BDL	3.340	14.405	26.653	
R1999-0363	pm	9902	sмарко		29.382	0.102	4.925	9.003	26.947	
			sмарко	10	Mean	14.404	0.213	5.067	22.241	45.433
					SD	10.664	0.139	3.468	13.402	21.888
					n	9	4	9	9	9

Continued

**Table 6-10A.** Continued

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0372	pm	0043	smarts		BDL	BDL	BDL	2.447	66.330
R1999-0375	pm	0104	smarts		45.719	1.703	24.285	83.880	1035.291
R1999-0384	pm	0221	smarts		21.437	0.271	1.781	16.518	46.993
R1999-0393	pm	9903	smarts		33.399	0.466	3.192	19.618	43.869
R1999-0378	pm	0132	smarts		4.489	0.173	1.479	7.426	22.204
R1999-0383	pm	0215	smarts		6.200	BDL	2.637	21.781	68.699
R1999-0385	pm	0224	smarts		7.469	0.334	1.447	8.803	32.727
R1999-0386	pm	0225	smarts		BDL	BDL	0.733	3.598	18.787
R1999-0388	pm	0233	smarts		25.154	0.285	1.946	6.390	19.270
R1999-0390	pm	0301	smarts		9.790	0.339	2.656	6.906	52.335
R1999-0391	pm	9901	smarts		3.850	BDL	3.677	21.100	43.357
R1999-0392	pm	9902	smarts		14.637	0.394	3.181	6.446	20.488
				smarts	12	Mean	17.214	0.496	4.274
						SD	14.039	0.495	6.697
						n	10	8	11
								12	12
									12

**Table 6-11A.** Blood COC. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	FieldID	Site	Sex	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
<u>Gopher</u>											
R1999-0002	gopher	02	high	f		BDL	BDL	0.579	0.215	2.116	
R1999-0006	gopher	06	high	f		BDL	BDL	0.599	0.751	3.912	
R1999-0005	gopher	05	high	m		BDL	BDL	0.916	0.883	5.590	
R1999-0004	gopher	04	high	m		BDL	BDL	1.114	0.997	6.965	
R1999-0003	gopher	03	high	f		BDL	BDL	1.114	0.672	5.549	
R1999-0001	gopher	01	high	f		BDL	BDL	1.234	0.747	4.839	
			high		6	Mean	-	-	0.926	0.711	4.829
						SD	-	-	0.280	0.269	1.665
						n	0	0	6	6	6
R1999-0007	gopher	01	low	f		BDL	BDL	0.279	0.715	5.281	
R1999-0008	gopher	02	low	m		BDL	BDL	0.358	0.185	2.971	
R1999-0011	gopher	05	low	m		BDL	BDL	0.475	0.795	4.297	
R1999-0012	gopher	06	low	m		BDL	BDL	0.737	0.911	5.369	
R1999-0010	gopher	04	low	m		BDL	BDL	0.851	1.542	4.719	
R1999-0009	gopher	03	low	f		BDL	BDL	1.197	1.010	6.361	
			low		6	Mean	-	-	0.650	0.860	4.833
						SD	-	-	0.347	0.441	1.148
						n	0	0	6	6	6
R1999-0018	gopher	06	medium	f		BDL	BDL	BDL	0.711	5.150	
R1999-0017	gopher	05	medium	m		BDL	0.047	0.694	0.723	5.320	
R1999-0014	gopher	02	medium	m		BDL	BDL	0.769	0.548	6.277	
R1999-0019	gopher	07	medium	f		BDL	BDL	0.797	1.228	6.041	
R1999-0013	gopher	01	medium	f		BDL	BDL	0.821	0.924	4.369	
R1999-0016	gopher	04	medium	f		BDL	0.133	1.268	2.212	15.395	
			medium		6	Mean	-	0.090	0.870	1.058	7.092
						SD	-	0.061	0.228	0.612	4.124
						n	0	2	5	6	6

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Meadow Vole</u>										
R1999-0021	mp	0021	anarts	f		BDL	BDL	BDL	3.898	7.723
R1999-0022	mp	0022	anarts	f		BDL	BDL	BDL	0.926	7.742
R1999-0023	mp	0031	anarts	m		BDL	BDL	BDL	0.565	7.597
R1999-0024	mp	0043	anarts	f		BDL	BDL	BDL	1.037	5.361
R1999-0025	mp	0045	anarts	f		BDL	BDL	BDL	BDL	14.204
R1999-0026	mp	0055	anarts	f		BDL	BDL	BDL	0.531	6.345
R1999-0027	mp	1001	anarts	f		BDL	BDL	BDL	1.210	17.122
R1999-0028	mp	1002	anarts	m		BDL	BDL	BDL	0.763	5.077
			anarts		8	Mean	-	-	1.276	8.896
						SD	-	-	1.182	4.372
						n	0	0	0	7 8
R1999-0030	mp	0022	H1	f		BDL	BDL	BDL	0.638	4.458
R1999-0029	mp	0021	H1	f		BDL	BDL	1.282	0.965	19.039
			H1		2	Mean	-	-	1.282	0.801 11.748
						SD	-	-	0.231	10.310
						n	0	0	1	2 2
R1999-0032	mp	0024	H2	m		BDL	BDL	BDL	1.610	6.083
R1999-0034	mp	0041	H2	m		BDL	BDL	BDL	1.121	4.268
R1999-0035	mp	0042	H2	f		BDL	BDL	BDL	1.525	9.298
R1999-0038	mp	0053	H2	m		BDL	BDL	BDL	2.121	4.991
R1999-0039	mp	0055	H2	f		BDL	BDL	BDL	0.713	6.356
R1999-0042	mp	0120	H2	m		BDL	BDL	BDL	1.317	4.736
R1999-0040	mp	0102	H2	m		BDL	BDL	0.589	0.556	4.690
R1999-0037	mp	0051	H2	f		BDL	BDL	0.782	0.996	9.299
R1999-0036	mp	0044	H2	f		BDL	BDL	1.244	1.460	6.712
R1999-0033	mp	0025	H2	m		BDL	BDL	1.375	2.246	8.634
			H2		10	Mean	-	-	0.998	1.367 6.507
						SD	-	-	0.373	0.550 1.947
						n	0	0	4	10 10
R1999-0045	mp	0110	L2	f		BDL	BDL	0.825	0.868	7.117
R1999-0043	mp	00313	L2	m		BDL	BDL	1.407	1.650	13.793
R1999-0044	mp	0041	L2	m		BDL	BDL	1.417	0.669	8.294
			L2		3	Mean	-	-	1.216	1.062 9.735
						SD	-	-	0.339	0.518 3.563
						n	0	0	3	3 3

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0047	mp	0032	M1	f		BDL	0.094	BDL	0.819	5.040
R1999-0046	mp	0012	M1	f		BDL	BDL	0.969	2.460	8.917
			M1		2	Mean	-	0.094	0.969	1.640
						SD	-	-	1.160	6.979
						n	0	1	1	2.741
									2	2
R1999-0052	mp	0032	M2	f		BDL	BDL	BDL	0.834	6.416
R1999-0054	mp	0035	M2	m		BDL	BDL	1.495	1.080	7.998
R1999-0055	mp	0041	M2	f		BDL	BDL	5.830	0.734	4.275
R1999-0056	mp	0051	M2	m		BDL	BDL	8.915	2.419	BDL
			M2		4	Mean	-	5.413	1.267	6.230
						SD	-	3.728	0.782	1.868
						n	0	0	3	4
									3	3
R1999-0057	mp	0023	oparts	m		BDL	BDL	BDL	0.660	6.538
R1999-0060	mp	4425	oparts	m		BDL	BDL	BDL	BDL	12.503
R1999-0058	mp	0024	oparts	m		BDL	0.239	1.617	1.225	12.320
R1999-0059	mp	0031	oparts	f		BDL	BDL	2.822	0.832	12.822
			oparts		4	Mean	-	0.239	2.220	0.905
						SD	-	0.852	0.290	3.012
						n	0	1	2	4
									3	
R1999-0069	mp	0035	smarco	f		BDL	BDL	BDL	0.882	5.731
R1999-0076	mp	0055	smarco	m		BDL	0.249	BDL	1.218	10.297
R1999-0082	mp	0105	smarco	f		BDL	BDL	BDL	2.105	11.951
R1999-0087	mp	0106	smarco	m		BDL	BDL	BDL	0.908	6.849
R1999-0088	mp	0111	smarco	f		BDL	BDL	BDL	0.501	7.014
R1999-0075	mp	0052	smarco	m		BDL	BDL	0.463	1.027	5.055
R1999-0061	mp	0011	smarco	f		BDL	BDL	0.849	1.127	5.280
R1999-0074	mp	0043	smarco	m		BDL	BDL	0.909	0.651	8.400
R1999-0077	mp	0103	smarco	f		BDL	BDL	1.283	0.796	9.487
			smarco		9	Mean	-	0.249	0.876	1.024
						SD	-	0.336	0.463	7.785
						n	0	1	4	2.407
									9	9

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N						
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
R1999-0099	mp	0044	smarts	f		BDL	BDL	BDL	0.967	5.100	
R1999-0105	mp	0055	smarts	m		BDL	BDL	BDL	1.150	7.355	
R1999-0108	mp	0120	smarts	f		BDL	BDL	BDL	1.412	4.062	
R1999-0110	mp	0131	smarts	m		BDL	BDL	BDL	0.667	8.594	
R1999-0113	mp	0135	smarts	m		BDL	BDL	BDL	0.930	5.457	
R1999-0109	mp	0123	smarts	m		BDL	BDL	0.773	0.881	7.949	
R1999-0111	mp	0133	smarts	m		BDL	BDL	0.787	1.760	7.051	
R1999-0095	mp	0034	smarts	f		BDL	BDL	0.804	1.203	6.894	
R1999-0094	mp	0032	smarts	f		BDL	BDL	1.018	1.431	5.590	
R1999-0106	mp	0113	smarts	f		BDL	BDL	1.193	0.936	8.297	
			smarts		10	Mean	-	-	0.915	1.134	6.635
						SD	-	-	0.185	0.325	1.511
						n	0	0	5	10	10

Deer Mouse

R1999-0120	pm	0035	anarts	m		BDL	BDL	BDL	1.287	5.782	
R1999-0121	pm	0041	anarts	f		BDL	BDL	BDL	1.277	7.965	
R1999-0122	pm	0045	anarts	m		BDL	BDL	BDL	2.181	12.751	
R1999-0124	pm	0104	anarts	m		BDL	BDL	BDL	0.972	7.864	
R1999-0126	pm	0110	anarts	m		BDL	BDL	BDL	1.062	6.241	
R1999-0129	pm	0114	anarts	f		BDL	BDL	BDL	1.516	15.764	
R1999-0130	pm	0115	anarts	f		BDL	BDL	BDL	1.729	8.778	
R1999-0131	pm	0120	anarts	m		BDL	BDL	BDL	0.892	7.354	
R1999-0132	pm	0122	anarts	f		BDL	BDL	BDL	1.043	8.968	
R1999-0119	pm	0023	anarts	f		BDL	BDL	BDL	0.624	1.403	5.622
R1999-0128	pm	0113	anarts	m		BDL	BDL	BDL	0.860	1.579	6.744
R1999-0133	pm	0123	anarts	m		BDL	BDL	BDL	1.040	1.142	11.961
R1999-0123	pm	0101	anarts	f		BDL	BDL	BDL	1.224	1.778	9.128
R1999-0127	pm	0112	anarts	m		BDL	0.166	1.441	1.090	6.772	
			anarts		14	Mean	-	0.166	1.037	1.354	8.692
						SD	-	-	0.316	0.367	2.933
						n	0	1	5	14	14

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N						
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
R1999-0136	pm	0013	H1	f		BDL	BDL	BDL	0.735	6.327	
R1999-0148	pm	0043	H1	f		BDL	BDL	1.102	1.543	12.901	
R1999-0151	pm	0055	H1	f		BDL	BDL	BDL	0.884	6.369	
R1999-0153	pm	0110	H1	f		BDL	BDL	BDL	1.594	5.729	
R1999-0154	pm	0111	H1	f		BDL	BDL	BDL	3.463	7.893	
R1999-0156	pm	0114	H1	f		BDL	BDL	BDL	0.945	5.576	
R1999-0159	pm	0132	H1	m		BDL	BDL	BDL	1.098	6.461	
R1999-0160	pm	0135	H1	f		BDL	BDL	BDL	0.986	5.278	
R1999-0161	pm	0140	H1	f		BDL	BDL	BDL	0.804	6.725	
R1999-0164	pm	0143	H1	m		BDL	BDL	BDL	0.791	5.623	
R1999-0166	pm	0145	H1	f		BDL	BDL	BDL	3.181	12.503	
R1999-0168	pm	0201	H1	f		BDL	BDL	BDL	1.013	5.155	
R1999-0150	pm	0054	H1	m		BDL	BDL	0.685	1.407	9.662	
R1999-0152	pm	0104	H1	m		BDL	BDL	0.750	1.081	7.126	
R1999-0158	pm	0131	H1	f		BDL	BDL	0.880	0.814	5.980	
R1999-0163	pm	0142	H1	f		BDL	BDL	1.085	1.166	6.839	
R1999-0146	pm	0035	H1	m		BDL	BDL	1.102	1.469	8.243	
R1999-0137	pm	0015	H1	f		BDL	BDL	1.193	0.752	8.001	
H1					18	Mean	-	-	0.971	1.318	7.355
						SD	-	-	0.198	0.780	2.268
					n	0	0	7	18	18	
R1999-0172	pm	0031	H2	m		BDL	BDL	BDL	1.100	7.510	
R1999-0175	pm	0041	H2	f		BDL	BDL	BDL	1.338	8.519	
R1999-0180	pm	0053	H2	m		BDL	BDL	BDL	1.006	5.055	
R1999-0184	pm	0115	H2	f		BDL	BDL	BDL	1.042	9.469	
R1999-0187	pm	0125	H2	f		BDL	BDL	BDL	0.994	6.390	
R1999-0188	pm	0130	H2	m		BDL	BDL	BDL	1.038	6.282	
R1999-0192	pm	0135	H2	f		BDL	BDL	BDL	2.736	6.366	
R1999-0193	pm	0140	H2	m		BDL	BDL	BDL	2.162	8.628	
R1999-0194	pm	0141	H2	m		BDL	BDL	BDL	0.931	5.778	
R1999-0191	pm	0134	H2	m		BDL	BDL	0.531	1.031	4.868	
R1999-0173	pm	0034	H2	m		BDL	BDL	0.557	2.794	9.837	
R1999-0176	pm	0042	H2	m		BDL	BDL	0.667	1.272	5.811	

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0170	pm	0022	H2	f		BDL	BDL	0.673	0.830	6.375
R1999-0195	pm	0142	H2	m		BDL	0.122	0.709	1.041	5.798
R1999-0183	pm	0114	H2	f		BDL	BDL	1.035	1.164	7.166
R1999-0189	pm	0132	H2	f		BDL	BDL	1.232	1.028	9.021
R1999-0185	pm	0121	H2	f		BDL	BDL	1.234	1.154	8.024
R1999-0190	pm	0133	H2	m		BDL	BDL	1.253	1.535	8.299
R1999-0196	pm	1121	H2	m		BDL	BDL	1.391	1.106	8.036
R1999-0174	pm	0035	H2	f		BDL	BDL	1.400	1.466	8.569
H2				20	Mean	-	0.122	0.971	1.338	7.290
					SD	-	-	0.346	0.566	1.494
					n	0	1	11	20	20
R1999-0205	pm	0023	L1	m		BDL	BDL	BDL	0.436	3.180
R1999-0206	pm	0024	L1	m		BDL	BDL	BDL	1.779	8.681
R1999-0207	pm	0031	L1	f		BDL	BDL	BDL	1.336	7.322
R1999-0208	pm	0042	L1	m		BDL	BDL	BDL	1.005	7.112
R1999-0210	pm	0112	L1	f		BDL	BDL	BDL	0.810	4.880
R1999-0215	pm	0124	L1	m		BDL	BDL	BDL	2.348	9.610
R1999-0217	pm	0131	L1	f		BDL	BDL	BDL	2.587	8.978
R1999-0218	pm	0132	L1	f		BDL	BDL	BDL	1.682	7.658
R1999-0219	pm	0133	L1	m		BDL	BDL	BDL	0.828	6.162
R1999-0220	pm	0134	L1	m		BDL	0.242	BDL	1.142	5.697
R1999-0221	pm	0135	L1	f		BDL	BDL	BDL	1.665	7.585
R1999-0222	pm	0140	L1	f		BDL	BDL	BDL	0.844	6.996
R1999-0223	pm	0141	L1	m		BDL	BDL	BDL	1.041	5.854
R1999-0224	pm	0142	L1	m		BDL	BDL	BDL	2.520	9.614
R1999-0225	pm	0404	L1	f		BDL	BDL	BDL	0.946	6.361
R1999-0209	pm	0101	L1	f		BDL	BDL	0.870	1.177	8.203
R1999-0214	pm	0123	L1	f		BDL	BDL	0.890	1.321	8.806
R1999-0216	pm	0130	L1	f		BDL	BDL	0.971	0.851	6.830
R1999-0203	pm	0012	L1	m		BDL	BDL	1.025	1.122	10.185
L1				19	Mean	-	0.242	0.939	1.339	7.353
					SD	-	-	0.072	0.610	1.779
					n	0	1	4	19	19

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0243	pm	0013	L2	m		BDL	BDL	BDL	1.918	6.111
R1999-0244	pm	0022	L2	m		BDL	BDL	BDL	1.205	8.025
R1999-0245	pm	0023	L2	m		BDL	BDL	BDL	1.044	6.644
R1999-0248	pm	0032	L2	m		BDL	BDL	BDL	1.955	7.382
R1999-0249	pm	0033	L2	f		BDL	BDL	BDL	0.909	6.521
R1999-0253	pm	0054	L2	f		BDL	BDL	BDL	0.798	6.899
R1999-0254	pm	0055	L2	f		BDL	BDL	BDL	2.862	13.620
R1999-0260	pm	0133	L2	m		BDL	BDL	BDL	4.867	9.016
R1999-0261	pm	0134	L2	f		BDL	BDL	BDL	0.519	3.429
R1999-0263	pm	0140	L2	f		BDL	BDL	BDL	1.251	6.275
R1999-0264	pm	0141	L2	f		BDL	BDL	BDL	0.755	9.768
R1999-0265	pm	0142	L2	m		BDL	BDL	BDL	1.286	6.537
R1999-0267	pm	0144	L2	m		BDL	BDL	BDL	0.969	4.945
R1999-0256	pm	0112	L2	m		BDL	BDL	0.630	0.644	6.137
R1999-0250	pm	0034	L2	f		BDL	BDL	0.647	1.383	7.819
R1999-0241	pm	0011	L2	m		BDL	BDL	0.721	2.738	9.555
R1999-0247	pm	0031	L2	f		BDL	BDL	0.748	1.686	7.751
R1999-0268	pm	0145	L2	m		BDL	BDL	0.749	0.882	7.538
R1999-0257	pm	0121	L2	f		BDL	BDL	0.820	1.180	7.497
R1999-0242	pm	0012	L2	f		BDL	BDL	1.562	1.299	9.259
						L2	20	Mean	-	-
								SD	-	0.840
								n	0	1.507
									7	7.536
									20	2.103
										20
R1999-0278	pm	0013	M1	m		BDL	BDL	BDL	7.739	10.989
R1999-0280	pm	0015	M1	m		BDL	BDL	BDL	1.017	6.610
R1999-0282	pm	0024	M1	m		BDL	BDL	BDL	1.704	7.986
R1999-0283	pm	0025	M1	f		BDL	BDL	BDL	1.163	5.318
R1999-0286	pm	0053	M1	f		BDL	BDL	BDL	0.925	5.394
R1999-0290	pm	0125	M1	m		BDL	BDL	BDL	1.155	7.355
R1999-0295	pm	0151	M1	f		BDL	BDL	BDL	1.689	6.199
R1999-0299	pm	0220	M1	m		BDL	BDL	BDL	1.217	5.964
R1999-0300	pm	0221	M1	f		BDL	BDL	BDL	1.188	5.531
R1999-0303	pm	0235	M1	f		BDL	BDL	BDL	1.214	7.631

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N						
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
R1999-0305	pm	0243	M1	f		BDL	BDL	BDL	1.394	5.274	
R1999-0281	pm	0021	M1	f		BDL	BDL	0.577	0.648	6.521	
R1999-0302	pm	0232	M1	f		BDL	BDL	0.759	1.406	9.701	
R1999-0296	pm	0155	M1	f		BDL	BDL	0.807	1.552	6.288	
R1999-0289	pm	0114	M1	m		BDL	BDL	0.887	1.121	7.503	
R1999-0285	pm	0044	M1	f		BDL	BDL	0.903	1.184	9.329	
R1999-0297	pm	0213	M1	m		BDL	BDL	1.016	0.995	8.012	
R1999-0279	pm	0014	M1	f		BDL	BDL	1.027	0.879	5.887	
R1999-0304	pm	0242	M1	f		BDL	BDL	1.085	0.827	7.838	
R1999-0288	pm	0111	M1	m		BDL	BDL	1.250	1.149	8.160	
			M1		20	Mean	-	-	0.923	1.508	7.174
						SD	-	-	0.198	1.491	1.577
					n	0	0	9	20	20	20
R1999-0312	pm	0025	M2	m		BDL	BDL	BDL	2.183	6.531	
R1999-0313	pm	0034	M2	f		BDL	BDL	BDL	1.145	6.704	
R1999-0315	pm	0042	M2	f		BDL	BDL	0.811	0.984	8.516	
R1999-0316	pm	0045	M2	m		BDL	0.233	BDL	1.157	7.502	
R1999-0317	pm	0051	M2	f		BDL	BDL	BDL	1.100	6.555	
R1999-0318	pm	0052	M2	m		BDL	BDL	BDL	2.089	6.881	
R1999-0319	pm	0053	M2	m		BDL	BDL	BDL	0.946	6.863	
R1999-0320	pm	0054	M2	m		BDL	BDL	BDL	0.763	6.049	
R1999-0323	pm	0102	M2	f		BDL	BDL	BDL	0.750	7.798	
R1999-0324	pm	0103	M2	m		BDL	BDL	BDL	1.317	8.314	
R1999-0325	pm	0105	M2	m		BDL	BDL	BDL	1.446	6.807	
R1999-0327	pm	0111	M2	f		BDL	BDL	BDL	3.269	8.302	
R1999-0329	pm	0113	M2	m		BDL	BDL	BDL	1.048	7.215	
R1999-0330	pm	0114	M2	f		BDL	BDL	BDL	1.059	6.244	
R1999-0326	pm	0110	M2	f		BDL	BDL	0.602	0.928	6.591	
R1999-0322	pm	0101	M2	m		BDL	BDL	0.728	0.781	6.178	
R1999-0314	pm	0041	M2	f		BDL	BDL	1.000	1.594	7.046	
R1999-0321	pm	0055	M2	f		BDL	BDL	1.276	1.294	7.785	
			M2		18	Mean	-	0.233	0.883	1.325	7.105
						SD	-	-	0.263	0.633	0.766
					n	0	1	5	18	18	18
R1999-0339	pm	0022	oparts	f		BDL	BDL	1.822	BDL	1.784	

Continued

**Table 6-11A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0344	pm	0012	smarco	f		BDL	BDL	BDL	0.833	6.705
R1999-0346	pm	0015	smarco	m		BDL	BDL	BDL	0.560	3.428
R1999-0350	pm	0042	smarco	m		BDL	BDL	BDL	1.160	8.306
R1999-0355	pm	0125	smarco	m		BDL	BDL	BDL	1.876	7.075
R1999-0361	pm	01525	smarco	f		BDL	BDL	BDL	0.380	4.450
R1999-0353	pm	0105	smarco	f		BDL	BDL	0.798	1.669	5.545
R1999-0348	pm	0032	smarco	f		BDL	BDL	1.013	1.403	8.157
R1999-0352	pm	0101	smarco	f		BDL	BDL	1.149	1.980	6.825
R1999-0357	pm	0135	smarco	m		BDL	BDL	1.185	2.994	8.045
R1999-0354	pm	0112	smarco	m		BDL	BDL	4.389	1.853	11.648
						smarco	10	Mean	-	-
								SD	-	1.707
								n	0	0.779
									5	2.291
									10	10
R1999-0370	pm	0024	smarts	f		BDL	BDL	BDL	1.352	6.371
R1999-0373	pm	0045	smarts	m		BDL	BDL	BDL	1.441	7.345
R1999-0375	pm	0104	smarts	f		BDL	BDL	BDL	2.075	10.054
R1999-0377	pm	0131	smarts	m		BDL	BDL	BDL	1.363	7.932
R1999-0380	pm	0135	smarts	m		BDL	BDL	BDL	0.982	4.672
R1999-0382	pm	0143	smarts	f		BDL	BDL	BDL	0.959	6.066
R1999-0376	pm	0121	smarts	f		BDL	BDL	0.744	1.372	9.747
R1999-0372	pm	0043	smarts	f		BDL	BDL	0.937	1.001	7.350
R1999-0371	pm	0034	smarts	m		BDL	BDL	1.034	1.828	9.364
R1999-0387	pm	0230	smarts	m		BDL	BDL	1.035	1.195	5.686
R1999-0364	pm	0014	smarts	f		BDL	BDL	1.570	1.356	7.088
						smarts	11	Mean	-	-
								SD	-	1.064
								n	0	1.357
									5	7.425
									11	1.732
										11

**Table 6-12A.** Blood metal and As concentration. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn	
						ug/g	ug/g	ug/g	ug/g	ug/g	
<u>Gopher</u>											
R2000-0009	tt	Governor's Plot	01	f	1	BDL	0.006	BDL	0.542	4.516	
R2000-0035	tt	High	04	f		0.330	0.019	BDL	0.583	3.765	
R2000-0036	tt	High	03	f		BDL	BDL	0.060	0.280	2.243	
R2000-0037	tt	High	02	f		0.035	0.002	BDL	0.208	1.702	
R2000-0038	tt	High	01	f		0.061	0.004	0.084	0.679	3.997	
R2000-0039	tt	High	05	f		0.073	0.006	0.174	0.605	3.571	
R2000-0040	tt	High	06	f		0.072	0.007	0.060	0.668	3.437	
R2000-0041	tt	High	10	f		BDL	0.005	BDL	0.516	3.659	
R2000-0042	tt	High	07	f		BDL	0.004	0.160	0.572	3.434	
R2000-0043	tt	High	08	m		0.055	0.004	0.175	0.607	4.519	
R2000-0044	tt	High	09	m		BDL	0.004	BDL	0.411	2.151	
		High			10	Mean	0.104	0.006	0.119	0.513	3.248
						SD	0.111	0.005	0.057	0.162	0.906
					n	n	6	9	6	10	10
R2000-0068	tt	Low	01	f		0.317	0.007	BDL	0.500	3.869	
R2000-0070	tt	Low	02	f		BDL	BDL	BDL	0.548	3.976	
R2000-0072	tt	Low	05	f		BDL	0.005	0.058	0.414	2.565	
R2000-0073	tt	Low	06	f		BDL	0.001	0.080	0.756	4.137	
R2000-0075	tt	Low	08	f		0.030	BDL	0.056	0.523	3.828	
R2000-0076	tt	Low	09	f		BDL	BDL	0.070	0.703	4.310	
R2000-0077	tt	Low	10	f		BDL	0.003	0.031	0.446	2.521	
R2000-0069	tt	Low	03	m		0.960	BDL	BDL	0.365	2.443	
R2000-0071	tt	Low	04	m		BDL	0.006	0.064	1.231	4.246	
		Low			9	Mean	0.436	0.004	0.060	0.610	3.544
						SD	0.476	0.002	0.017	0.266	0.792
					n	n	3	5	6	9	9

Continued

**Table 6-12A.** Continued

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn
						ug/g	ug/g	ug/g	ug/g	ug/g
R2000-0099	tt	Medium	02	f		0.227	0.032	BDL	0.645	4.471
R2000-0105	tt	Medium	07	f		BDL	BDL	BDL	0.621	3.983
R2000-0107	tt	Medium	10	f		0.294	0.037	0.084	1.073	9.245
R2000-0100	tt	Medium	01	m		BDL	0.009	BDL	0.448	3.284
R2000-0101	tt	Medium	05	m		BDL	0.011	0.131	0.974	4.688
R2000-0102	tt	Medium	03	m		BDL	0.003	BDL	0.277	1.801
R2000-0103	tt	Medium	04	m		0.185	0.007	BDL	1.328	3.586
R2000-0104	tt	Medium	08	m		0.069	0.009	0.049	0.842	4.966
R2000-0106	tt	Medium	06	m		BDL	0.003	0.043	0.565	3.481
R2000-0108	tt	Medium	09	m		BDL	0.003	BDL	0.339	2.231
Medium						10	Mean	0.194	0.012	0.077
						SD	0.095	0.013	0.041	0.338
						n	4	9	4	10
										10

Deer Mouse

R2000-0013	pm	H1	0211	f		BDL	0.008	BDL	0.935	6.345
R2000-0015	pm	H1	0233	f		BDL	0.021	BDL	1.885	6.798
R2000-0016	pm	H1	0303	f		BDL	0.007	BDL	0.921	6.322
R2000-0020	pm	H1	0154	f		BDL	0.036	BDL	1.801	10.761
R2000-0021	pm	H1	0315	f		BDL	0.009	BDL	1.271	8.614
R2000-0012	pm	H1	0301	m		BDL	BDL	BDL	2.245	8.313
R2000-0014	pm	H1	0221	m		BDL	0.015	BDL	1.744	7.411
R2000-0017	pm	H1	0214	m		BDL	0.021	BDL	1.193	6.220
R2000-0018	pm	H1	0234	m		BDL	0.012	BDL	1.274	7.665
R2000-0019	pm	H1	0321	m		BDL	BDL	BDL	0.935	5.672
H1						10	Mean	-	0.016	-
						SD	-	0.010	-	0.467
						n	0	8	0	10
										10

Continued

**Table 6-12A.** Continued

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn
						ug/g	ug/g	ug/g	ug/g	ug/g
R2000-0025	pm	H2	0225	f		BDL	0.006	BDL	1.439	6.571
R2000-0026	pm	H2	0223	f		BDL	0.009	BDL	1.040	6.915
R2000-0027	pm	H2	1241	f		BDL	0.009	BDL	1.002	6.441
R2000-0030	pm	H2	0220	f		BDL	0.011	BDL	1.449	6.908
R2000-0034	pm	H2	1001	f		BDL	0.008	BDL	0.987	5.562
R2000-0028	pm	H2	0112	m		BDL	BDL	BDL	1.064	4.809
R2000-0029	pm	H2	0154	m		BDL	0.008	BDL	1.056	4.885
R2000-0031	pm	H2	0305	m		BDL	0.013	BDL	0.956	7.494
R2000-0032	pm	H2	0213	m		BDL	BDL	BDL	1.852	9.034
R2000-0033	pm	H2	0221	m		BDL	0.011	BDL	1.036	7.630
H2						10	Mean	-	0.009	-
							SD	-	0.002	-
						n	n	0	8	0
									10	10
R2000-0045	pm	L1	0302	f		BDL	BDL	BDL	2.190	6.492
R2000-0047	pm	L1	0330	f		BDL	BDL	BDL	1.043	5.491
R2000-0051	pm	L1	0304	f		BDL	BDL	BDL	1.099	5.261
R2000-0055	pm	L1	0323	f		BDL	BDL	BDL	1.011	5.996
R2000-0056	pm	L1	0234	f		BDL	0.018	BDL	0.945	5.885
R2000-0046	pm	L1	0315	m		BDL	0.006	BDL	0.995	5.983
R2000-0048	pm	L1	0235	m		BDL	BDL	BDL	1.388	5.968
R2000-0049	pm	L1	0233	m		BDL	0.090	0.509	3.581	22.807
R2000-0050	pm	L1	0325	m		BDL	BDL	BDL	0.864	7.230
R2000-0052	pm	L1	0343	m		BDL	BDL	BDL	0.889	5.754
R2000-0053	pm	L1	0155	m		BDL	0.006	BDL	1.689	6.716
R2000-0054	pm	L1	0242	m		BDL	BDL	0.132	1.632	8.360
L1						12	Mean	-	0.030	0.320
							SD	-	0.041	0.266
						n	n	0	4	2
									12	12
R2000-0060	pm	L2	0331	f		BDL	0.010	BDL	0.969	7.889
R2000-0062	pm	L2	0323	f		BDL	BDL	BDL	1.295	8.878
R2000-0066	pm	L2	0352	f		BDL	BDL	BDL	0.614	5.135
R2000-0067	pm	L2	0240	f		BDL	0.006	BDL	0.974	5.975

Continued

**Table 6-12A.** Continued

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn	
						ug/g	ug/g	ug/g	ug/g	ug/g	
R2000-0057	pm	L2	0211	m		BDL	BDL	BDL	1.770	6.810	
R2000-0058	pm	L2	0241	m		BDL	BDL	BDL	0.933	5.763	
R2000-0059	pm	L2	0212	m		BDL	0.016	BDL	2.264	7.666	
R2000-0061	pm	L2	0204	m		BDL	0.008	BDL	1.262	6.597	
R2000-0063	pm	L2	0235	m		BDL	BDL	BDL	0.941	5.800	
R2000-0064	pm	L2	0205	m		BDL	BDL	BDL	0.906	6.170	
R2000-0065	pm	L2	0214	m		BDL	BDL	BDL	0.533	3.403	
		L2			11	Mean	-	0.010	-	1.133	6.371
						SD	-	0.004	-	0.504	1.474
					n	n	0	4	0	11	11
R2000-0078	pm	M1	0313	f		BDL	0.009	BDL	1.198	5.921	
R2000-0084	pm	M1	0315	f		BDL	0.006	0.338	1.017	6.983	
R2000-0086	pm	M1	0321	f		BDL	BDL	BDL	0.957	6.587	
R2000-0087	pm	M1	0351	f		BDL	0.009	BDL	1.357	6.074	
R2000-0088	pm	M1	0414	f		BDL	BDL	BDL	1.105	8.573	
R2000-0079	pm	M1	0304	m		BDL	0.009	BDL	0.769	6.052	
R2000-0080	pm	M1	0325	m		BDL	0.008	BDL	1.165	7.408	
R2000-0081	pm	M1	0312	m		BDL	0.008	BDL	1.094	6.217	
R2000-0082	pm	M1	0310	m		BDL	0.027	BDL	1.152	7.885	
R2000-0083	pm	M1	0323	m		BDL	0.134	1.401	2.859	17.345	
R2000-0085	pm	M1	0324	m		BDL	0.007	BDL	1.007	6.270	
		M1			11	Mean	-	0.024	0.869	1.244	7.756
						SD	-	0.042	0.752	0.556	3.292
					n	n	0	9	2	11	11
R2000-0089	pm	M2	0131	f		BDL	0.008	BDL	1.473	4.970	
R2000-0091	pm	M2	0135	f		BDL	0.010	0.154	1.887	12.433	
R2000-0092	pm	M2	0141	f		BDL	0.012	BDL	1.048	6.640	
R2000-0096	pm	M2	0215	f		BDL	0.020	BDL	1.506	9.699	
R2000-0098	pm	M2	0221	f		BDL	BDL	BDL	0.918	5.977	
R2000-0090	pm	M2	0144	m		BDL	BDL	BDL	1.153	9.205	
R2000-0093	pm	M2	0142	m		BDL	0.010	BDL	1.128	7.184	
R2000-0094	pm	M2	0204	m		BDL	0.010	BDL	1.237	9.051	
R2000-0095	pm	M2	0153	m		BDL	0.019	BDL	1.084	7.339	
R2000-0097	pm	M2	0213	m		BDL	0.031	0.451	3.473	27.227	
		M2			10	Mean	-	0.015	0.303	1.491	9.973
						SD	-	0.008	0.210	0.752	6.430
					n	n	0	8	2	10	10

**Table 6-13A.** Liver metal and As concentration. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	FieldID	Site	Sex	Site N						
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
<u>Gopher</u>											
R1999-0001	gopher	01	high	f		0.648	11.140	2.258	6.825	29.731	
R1999-0002	gopher	02	high	f		1.745	2.348	1.374	5.183	25.024	
R1999-0003	gopher	03	high	f		BDL	0.760	2.736	6.209	34.589	
R1999-0004	gopher	04	high	m		1.623	1.100	2.974	10.105	36.891	
R1999-0005	gopher	05	high	m		2.191	1.098	1.895	9.622	49.622	
R1999-0006	gopher	06	high	f		1.218	0.704	1.029	10.037	27.048	
			high		6	Mean	1.485	2.858	2.044	7.997	33.818
						SD	0.582	4.100	0.760	2.179	8.940
						n	5	6	6	6	6
R1999-0007	gopher	01	low	f		0.468	0.054	0.379	6.723	21.962	
R1999-0008	gopher	02	low	m		BDL	0.033	0.359	3.909	38.376	
R1999-0009	gopher	03	low	f		BDL	0.246	0.647	17.965	24.884	
R1999-0010	gopher	04	low	m		BDL	0.157	0.480	4.159	26.511	
R1999-0011	gopher	05	low	m		0.432	0.077	0.487	3.919	25.460	
R1999-0012	gopher	06	low	m		BDL	0.084	0.588	4.984	27.834	
			low		6	Mean	0.450	0.108	0.490	6.943	27.505
						SD	0.025	0.080	0.113	5.504	5.675
						n	2	6	6	6	6
R1999-0013	gopher	01	medium	f		1.467	1.559	0.508	4.043	29.845	
R1999-0014	gopher	02	medium	m		1.576	7.494	1.131	8.092	40.510	
R1999-0015	gopher	03	medium	m		BDL	0.704	1.545	5.490	36.263	
R1999-0016	gopher	04	medium	f		1.292	13.375	0.708	15.100	41.817	
R1999-0017	gopher	05	medium	m		BDL	6.118	0.868	9.520	31.971	
R1999-0018	gopher	06	medium	f		2.281	5.725	0.608	7.606	28.757	
R1999-0019	gopher	07	medium	f		1.474	13.048	0.501	10.070	24.344	
			medium		7	Mean	1.618	6.860	0.838	8.560	33.358
						SD	0.385	4.983	0.383	3.581	6.427
						n	5	7	7	7	7

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N						
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
<u>Meadow Vole</u>											
R1999-0021	mp	0021	anarts	f		BDL	0.409	0.404	3.810	32.718	
R1999-0022	mp	0022	anarts	f		BDL	0.738	0.480	2.997	30.979	
R1999-0023	mp	0031	anarts	m		BDL	0.319	BDL	6.446	31.861	
R1999-0024	mp	0043	anarts	f		BDL	0.413	0.899	3.704	27.249	
R1999-0025	mp	0045	anarts	f		BDL	0.587	1.292	9.963	37.468	
R1999-0026	mp	0055	anarts	f		BDL	0.209	0.671	4.996	24.837	
R1999-0027	mp	1001	anarts	f		BDL	0.436	BDL	3.982	22.372	
R1999-0028	mp	1002	anarts	m		BDL	0.355	0.850	4.422	36.193	
			anarts		8	Mean	-	0.433	0.766	5.040	30.460
						SD	-	0.163	0.323	2.242	5.300
						n	0	8	6	8	8
R1999-0029	mp	0021	H1	f		BDL	4.068	BDL	4.294	30.695	
R1999-0030	mp	0022	H1	f		BDL	3.608	0.323	3.904	31.804	
					2	Mean	-	3.838	0.323	4.099	31.250
			H1			SD	-	0.325	-	0.276	0.784
						n	0	2	1	2	2
R1999-0032	mp	0024	H2	m		BDL	7.131	0.511	25.901	38.299	
R1999-0033	mp	0025	H2	m		BDL	1.377	0.275	3.536	27.672	
R1999-0034	mp	0041	H2	m		BDL	1.507	0.525	4.668	25.638	
R1999-0035	mp	0042	H2	f		BDL	6.356	0.346	4.230	29.112	
R1999-0036	mp	0044	H2	f		BDL	2.941	0.485	7.647	26.478	
R1999-0037	mp	0051	H2	f		BDL	3.193	0.569	4.884	37.491	
R1999-0038	mp	0053	H2	m		BDL	2.136	0.440	5.608	33.855	
R1999-0039	mp	0055	H2	f		BDL	2.286	BDL	3.654	44.182	
R1999-0040	mp	0102	H2	m		BDL	0.554	BDL	3.158	23.970	
R1999-0041	mp	0103	H2	m		BDL	0.356	BDL	4.631	33.520	
R1999-0042	mp	0120	H2	m		BDL	1.400	0.618	4.929	25.289	
			H2		11	Mean	-	2.658	0.471	6.622	31.410
						SD	-	2.208	0.114	6.508	6.540
						n	0	11	8	11	11

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N	As		Cd		Pb	Cu	Zn
						ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0043	mp	00313	L2	m		BDL	0.311	BDL	4.938	31.689		
R1999-0044	mp	0041	L2	m		BDL	0.158	0.400	7.741	35.743		
R1999-0045	mp	0110	L2	f		BDL	0.334	0.274	4.904	44.785		
			L2		3	Mean	-	0.267	0.337	5.861	37.406	
						SD	-	0.096	0.089	1.628	6.705	
						n	0	3	2	3	3	
R1999-0046	mp	0012	M1	f		1.550	3.448	0.726	5.733	27.341		
R1999-0047	mp	0032	M1	f		BDL	4.831	0.308	3.309	39.407		
			M1		2	Mean	1.550	4.140	0.517	4.521	33.374	
						SD	-	0.978	0.296	1.714	8.532	
						n	1	2	2	2	2	
R1999-0052	mp	0032	M2	f		BDL	8.998	0.722	9.111	44.108		
R1999-0054	mp	0035	M2	m		BDL	0.541	0.534	6.961	41.323		
R1999-0055	mp	0041	M2	f		BDL	1.291	BDL	10.205	18.730		
R1999-0056	mp	0051	M2	m		BDL	1.817	BDL	4.586	33.000		
			M2		4	Mean	-	3.162	0.628	7.716	34.290	
						SD	-	3.926	0.133	2.484	11.396	
						n	0	4	2	4	4	
R1999-0057	mp	0023	oparts	m		BDL	0.256	BDL	3.246	29.620		
R1999-0058	mp	0024	oparts	m		BDL	0.175	BDL	4.025	33.647		
R1999-0059	mp	0031	oparts	f		BDL	BDL	BDL	7.132	29.038		
R1999-0060	mp	4425	oparts	m		BDL	BDL	BDL	5.018	33.641		
			oparts		4	Mean	-	0.215	-	4.855	31.487	
						SD	-	0.058	-	1.682	2.502	
						n	0	2	0	4	4	

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0061	mp	0011	smarco	f		BDL	0.233	0.585	3.882	24.141
R1999-0069	mp	0035	smarco	f		BDL	0.535	0.713	5.501	51.060
R1999-0074	mp	0043	smarco	m		BDL	0.132	BDL	4.241	22.482
R1999-0075	mp	0052	smarco	m		BDL	0.132	0.316	3.272	27.047
R1999-0076	mp	0055	smarco	m		BDL	0.229	0.729	10.981	29.458
R1999-0077	mp	0103	smarco	f		BDL	0.385	BDL	3.338	33.928
R1999-0082	mp	0105	smarco	f		BDL	0.199	0.740	19.724	32.828
R1999-0087	mp	0106	smarco	m		BDL	0.190	0.499	7.366	52.266
R1999-0088	mp	0111	smarco	f		BDL	0.177	0.416	3.796	22.898
						smarco	9	Mean	-	0.246
								SD	-	0.132
								n	0	9
									9	7
									9	9
R1999-0094	mp	0032	smarts	f		BDL	4.697	0.691	5.370	33.003
R1999-0095	mp	0034	smarts	f		2.121	3.152	2.034	4.936	25.832
R1999-0099	mp	0044	smarts	f		BDL	2.141	0.616	4.025	42.062
R1999-0105	mp	0055	smarts	m		BDL	0.239	BDL	5.593	32.591
R1999-0106	mp	0113	smarts	f		BDL	1.494	0.436	9.291	26.435
R1999-0107	mp	0114	smarts	m		BDL	0.888	0.691	4.777	35.539
R1999-0108	mp	0120	smarts	f		3.540	2.103	0.448	5.371	31.221
R1999-0109	mp	0123	smarts	m		BDL	0.666	0.981	5.453	40.584
R1999-0110	mp	0131	smarts	m		BDL	0.124	BDL	3.750	27.161
R1999-0111	mp	0133	smarts	m		BDL	0.175	0.327	5.176	33.919
R1999-0113	mp	0135	smarts	m		BDL	0.886	BDL	6.571	32.925
R1999-0114	mp	0140	smarts	m		BDL	0.289	BDL	4.024	28.500
R1999-0115	mp	0141	smarts	m		BDL	0.419	BDL	5.219	31.036
R1999-0118	mp	1124	smarts	m		BDL	0.981	BDL	5.181	31.576
						smarts	14	Mean	2.831	1.304
								SD	1.004	1.324
								n	2	14
									8	14
									14	14

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N								
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g			
R1999-0119	pm	0023	anarts	f		BDL	0.487	BDL	4.915	48.027			
R1999-0120	pm	0035	anarts	m		BDL	0.212	BDL	5.884	29.778			
R1999-0121	pm	0041	anarts	f		BDL	0.773	0.925	5.621	31.252			
R1999-0122	pm	0045	anarts	m		BDL	0.521	BDL	6.169	24.940			
R1999-0123	pm	0101	anarts	f		BDL	0.397	BDL	4.440	30.192			
R1999-0124	pm	0104	anarts	m		BDL	BDL	BDL	5.002	38.438			
R1999-0126	pm	0110	anarts	m		BDL	BDL	BDL	3.357	18.828			
R1999-0127	pm	0112	anarts	m		BDL	0.346	BDL	4.800	26.391			
R1999-0128	pm	0113	anarts	m		BDL	0.301	BDL	4.747	21.983			
R1999-0129	pm	0114	anarts	f		BDL	BDL	BDL	2.503	19.226			
R1999-0130	pm	0115	anarts	f		BDL	0.152	0.820	4.380	28.238			
R1999-0132	pm	0122	anarts	f		BDL	BDL	BDL	18.611	38.317			
R1999-0133	pm	0123	anarts	m		BDL	0.323	BDL	4.988	31.129			
						anarts	13	Mean	-	0.390	0.873	5.801	29.749
								SD	-	0.186	0.074	3.971	8.238
								n	0	9	2	13	13
R1999-0136	pm	0013	H1	f		BDL	0.524	0.666	4.725	31.737			
R1999-0137	pm	0015	H1	f		BDL	0.750	BDL	5.071	31.678			
R1999-0143	pm	0021	H1	m		BDL	0.732	BDL	5.057	20.544			
R1999-0145	pm	0024	H1	m		BDL	0.832	BDL	5.525	22.812			
R1999-0146	pm	0035	H1	m		BDL	1.011	BDL	4.628	23.371			
R1999-0147	pm	0042	H1	m		BDL	0.524	BDL	7.665	17.538			
R1999-0148	pm	0043	H1	f		BDL	0.431	BDL	4.868	23.612			
R1999-0149	pm	0044	H1	m		BDL	1.664	BDL	9.738	38.247			
R1999-0150	pm	0054	H1	m		BDL	1.056	0.775	5.844	43.724			
R1999-0151	pm	0055	H1	f		BDL	0.609	BDL	4.929	23.098			
R1999-0152	pm	0104	H1	m		BDL	0.645	BDL	4.987	22.816			
R1999-0153	pm	0110	H1	f		BDL	0.877	0.750	5.439	29.466			
R1999-0154	pm	0111	H1	f		BDL	1.104	0.810	10.204	30.117			
R1999-0155	pm	0112	H1	m		BDL	0.611	BDL	5.016	29.301			

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N						
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
R1999-0158	pm	0131	H1	f		BDL	0.287	0.396	4.167	20.555	
R1999-0159	pm	0132	H1	m		BDL	1.185	BDL	6.063	24.323	
R1999-0160	pm	0135	H1	f		BDL	1.116	1.150	5.843	25.325	
R1999-0161	pm	0140	H1	f		BDL	0.219	0.902	5.351	23.484	
R1999-0162	pm	0141	H1	m		BDL	0.967	BDL	6.834	28.753	
R1999-0163	pm	0142	H1	f		BDL	0.978	BDL	3.388	17.439	
R1999-0164	pm	0143	H1	m		BDL	0.866	BDL	3.080	15.317	
R1999-0165	pm	0144	H1	m		BDL	0.770	BDL	3.954	19.579	
R1999-0166	pm	0145	H1	f		BDL	0.153	BDL	4.353	17.681	
R1999-0168	pm	0201	H1	f		BDL	0.569	BDL	4.632	23.123	
			H1		24	Mean	-	0.770	0.778	5.473	25.152
						SD	-	0.343	0.229	1.702	6.749
					n	0	24	7	24	24	
R1999-0170	pm	0022	H2	f		BDL	1.993	0.946	5.235	29.202	
R1999-0171	pm	0023	H2	m		BDL	0.601	BDL	5.108	30.569	
R1999-0172	pm	0031	H2	m		BDL	1.076	0.674	4.381	28.014	
R1999-0173	pm	0034	H2	m		BDL	0.610	0.826	7.091	27.953	
R1999-0174	pm	0035	H2	f		BDL	BDL	1.199	4.746	25.431	
R1999-0175	pm	0041	H2	f		BDL	0.961	0.448	3.992	23.885	
R1999-0176	pm	0042	H2	m		BDL	0.809	0.570	5.928	29.724	
R1999-0177	pm	0044	H2	m		BDL	0.570	BDL	5.279	35.669	
R1999-0178	pm	0045	H2	f		BDL	1.188	0.514	5.340	30.915	
R1999-0179	pm	0052	H2	f		BDL	0.630	BDL	3.423	23.979	
R1999-0180	pm	0053	H2	m		BDL	1.308	0.825	7.061	35.733	
R1999-0181	pm	0054	H2	m		BDL	0.999	BDL	5.236	30.868	
R1999-0182	pm	0113	H2	f		BDL	1.255	0.958	4.736	23.634	
R1999-0183	pm	0114	H2	f		BDL	0.701	1.141	5.303	23.953	
R1999-0184	pm	0115	H2	f		BDL	0.362	BDL	4.955	23.322	
R1999-0185	pm	0121	H2	f		BDL	1.265	0.351	3.990	30.036	
R1999-0186	pm	0123	H2	m		BDL	0.549	BDL	4.167	26.408	
R1999-0187	pm	0125	H2	f		BDL	0.648	1.195	5.638	38.683	
R1999-0188	pm	0130	H2	m		BDL	0.288	BDL	4.819	27.849	

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N							
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g		
R1999-0189	pm	0132	H2	f		BDL	0.109	BDL	5.140	21.561		
R1999-0190	pm	0133	H2	m		BDL	0.293	0.816	5.663	23.889		
R1999-0191	pm	0134	H2	m		BDL	0.631	0.604	3.588	18.857		
R1999-0192	pm	0135	H2	f		BDL	0.599	BDL	5.622	29.700		
R1999-0193	pm	0140	H2	m		BDL	0.432	1.315	5.055	20.177		
R1999-0194	pm	0141	H2	m		BDL	1.183	1.019	4.529	23.765		
R1999-0195	pm	0142	H2	m		BDL	0.522	1.548	5.839	30.123		
R1999-0196	pm	1121	H2	m		BDL	0.618	BDL	5.641	27.130		
H2						27	Mean	-	0.777	0.879	5.093	27.446
							SD	-	0.414	0.331	0.877	4.744
							n	0	26	17	27	27
R1999-0203	pm	0012	L1	m		BDL	0.096	BDL	3.228	19.815		
R1999-0204	pm	0014	L1	m		BDL	0.174	BDL	5.768	44.378		
R1999-0205	pm	0023	L1	m		BDL	0.092	BDL	3.889	20.079		
R1999-0206	pm	0024	L1	m		BDL	0.105	BDL	4.558	20.908		
R1999-0207	pm	0031	L1	f		BDL	0.157	0.456	5.163	45.229		
R1999-0208	pm	0042	L1	m		BDL	0.098	BDL	4.561	21.625		
R1999-0209	pm	0101	L1	f		BDL	0.057	BDL	7.220	30.573		
R1999-0210	pm	0112	L1	f		BDL	0.397	BDL	5.340	28.438		
R1999-0212	pm	0115	L1	m		BDL	BDL	BDL	7.916	33.067		
R1999-0213	pm	0122	L1	f		BDL	0.143	0.330	6.570	43.471		
R1999-0214	pm	0123	L1	f		BDL	0.164	BDL	3.785	35.150		
R1999-0215	pm	0124	L1	m		BDL	0.392	BDL	6.755	24.199		
R1999-0216	pm	0130	L1	f		BDL	0.109	0.748	9.291	57.134		
R1999-0217	pm	0131	L1	f		BDL	BDL	BDL	5.215	28.407		
R1999-0218	pm	0132	L1	f		BDL	BDL	BDL	5.486	39.010		
R1999-0219	pm	0133	L1	m		BDL	BDL	BDL	4.593	26.511		
R1999-0220	pm	0134	L1	m		BDL	BDL	BDL	3.110	52.330		
R1999-0221	pm	0135	L1	f		BDL	BDL	1.937	6.664	28.359		
R1999-0222	pm	0140	L1	f		BDL	0.112	BDL	4.803	22.905		
R1999-0223	pm	0141	L1	m		BDL	0.129	BDL	4.598	26.529		
R1999-0224	pm	0142	L1	m		BDL	0.222	BDL	4.330	32.655		
R1999-0225	pm	0404	L1	f		BDL	0.271	BDL	6.493	34.629		
L1						22	Mean	-	0.170	0.868	5.424	32.518
							SD	-	0.102	0.734	1.544	10.539
							n	0	16	4	22	22

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N								
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g			
R1999-0241	pm	0011	L2	m		BDL	0.160	BDL	4.442	22.639			
R1999-0242	pm	0012	L2	f		BDL	0.325	0.519	5.780	38.407			
R1999-0243	pm	0013	L2	m		BDL	0.893	0.341	2.936	12.780			
R1999-0244	pm	0022	L2	m		BDL	0.319	0.650	5.045	40.059			
R1999-0245	pm	0023	L2	m		BDL	0.449	BDL	5.867	28.940			
R1999-0246	pm	0025	L2	m		BDL	0.297	BDL	3.984	30.999			
R1999-0247	pm	0031	L2	f		BDL	0.426	BDL	4.615	25.802			
R1999-0248	pm	0032	L2	m		BDL	0.432	BDL	5.630	30.621			
R1999-0249	pm	0033	L2	f		BDL	0.141	0.608	3.785	62.546			
R1999-0250	pm	0034	L2	f		BDL	0.105	0.339	5.230	25.808			
R1999-0251	pm	0051	L2	m		BDL	BDL	BDL	4.449	28.622			
R1999-0253	pm	0054	L2	f		BDL	0.104	BDL	4.630	23.690			
R1999-0254	pm	0055	L2	f		BDL	0.212	BDL	5.654	34.681			
R1999-0256	pm	0112	L2	m		BDL	0.179	BDL	6.237	34.679			
R1999-0257	pm	0121	L2	f		BDL	0.219	BDL	4.384	29.035			
R1999-0260	pm	0133	L2	m		BDL	BDL	BDL	6.680	35.630			
R1999-0261	pm	0134	L2	f		BDL	0.235	0.429	4.839	23.500			
R1999-0262	pm	0135	L2	m		BDL	0.124	0.506	5.852	27.318			
R1999-0263	pm	0140	L2	f		BDL	0.112	BDL	4.300	22.563			
R1999-0264	pm	0141	L2	f		BDL	0.227	BDL	6.668	36.832			
R1999-0265	pm	0142	L2	m		BDL	0.548	0.711	4.882	23.484			
R1999-0266	pm	0143	L2	m		BDL	BDL	BDL	8.680	27.964			
R1999-0267	pm	0144	L2	m		BDL	BDL	0.892	5.789	28.261			
R1999-0268	pm	0145	L2	m		BDL	0.213	0.867	4.984	24.548			
						L2	24	Mean	-	0.286	0.586	5.223	29.975
								SD	-	0.192	0.197	1.173	9.251
								n	0	20	10	24	24
R1999-0278	pm	0013	M1	m		BDL	0.064	0.671	4.106	19.309			
R1999-0279	pm	0014	M1	f		BDL	3.072	BDL	5.115	20.103			
R1999-0280	pm	0015	M1	m		BDL	0.659	BDL	4.692	27.254			
R1999-0281	pm	0021	M1	f		BDL	0.359	BDL	4.367	23.471			
R1999-0282	pm	0024	M1	m		BDL	0.526	BDL	4.849	23.579			
R1999-0283	pm	0025	M1	f		BDL	0.525	BDL	4.015	22.795			
R1999-0284	pm	0033	M1	m		BDL	0.652	BDL	5.706	26.880			
R1999-0285	pm	0044	M1	f		BDL	1.215	0.386	5.729	39.263			
R1999-0286	pm	0053	M1	f		BDL	0.791	BDL	3.474	18.190			
R1999-0287	pm	0101	M1	m		BDL	0.771	0.771	5.090	27.396			
R1999-0288	pm	0111	M1	m		BDL	0.760	BDL	5.400	23.271			
R1999-0289	pm	0114	M1	m		BDL	0.778	0.476	4.646	25.166			
R1999-0291	pm	0126	M1	m		BDL	0.898	0.944	6.309	30.642			
R1999-0293	pm	0132	M1	m		BDL	0.294	0.446	4.431	21.455			

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N						
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
R1999-0295	pm	0151	M1	f		BDL	0.549	0.894	5.216	32.342	
R1999-0296	pm	0155	M1	f		BDL	0.712	0.649	5.207	28.927	
R1999-0297	pm	0213	M1	m		BDL	0.350	BDL	3.144	15.349	
R1999-0298	pm	0214	M1	m		BDL	0.816	BDL	8.118	33.767	
R1999-0299	pm	0220	M1	m		BDL	1.823	0.870	5.747	26.980	
R1999-0300	pm	0221	M1	f		BDL	0.166	0.641	4.393	22.749	
R1999-0302	pm	0232	M1	f		BDL	0.125	BDL	2.905	17.259	
R1999-0303	pm	0235	M1	f		BDL	0.434	0.281	3.796	33.854	
R1999-0304	pm	0242	M1	f		BDL	0.225	0.464	4.093	18.574	
R1999-0305	pm	0243	M1	f		BDL	0.147	BDL	4.724	20.074	
			M1		24	Mean	-	0.696	0.624	4.803	24.944
						SD	-	0.637	0.216	1.103	6.005
						n	0	24	12	24	24
R1999-0312	pm	0025	M2	m		BDL	0.109	0.810	8.469	33.357	
R1999-0313	pm	0034	M2	f		BDL	1.641	BDL	6.437	30.649	
R1999-0314	pm	0041	M2	f		BDL	0.960	0.877	5.296	45.078	
R1999-0315	pm	0042	M2	f		BDL	0.656	0.554	5.962	22.136	
R1999-0316	pm	0045	M2	m		BDL	0.327	BDL	5.725	26.568	
R1999-0317	pm	0051	M2	f		BDL	2.400	0.541	7.818	26.957	
R1999-0318	pm	0052	M2	m		BDL	0.179	0.437	2.330	17.371	
R1999-0319	pm	0053	M2	m		BDL	0.278	0.654	3.442	28.454	
R1999-0320	pm	0054	M2	m		BDL	0.199	BDL	5.365	26.678	
R1999-0321	pm	0055	M2	f		BDL	3.593	BDL	7.437	36.279	
R1999-0322	pm	0101	M2	m		BDL	0.333	BDL	7.706	28.353	
R1999-0323	pm	0102	M2	f		BDL	1.071	0.276	4.242	20.178	
R1999-0324	pm	0103	M2	m		BDL	0.333	BDL	4.308	20.600	
R1999-0325	pm	0105	M2	m		BDL	0.729	BDL	3.288	20.454	
R1999-0326	pm	0110	M2	f		BDL	0.672	0.370	4.409	24.755	
R1999-0327	pm	0111	M2	f		BDL	0.293	BDL	5.057	25.005	
R1999-0328	pm	0112	M2	m		BDL	0.524	BDL	8.635	38.469	
R1999-0329	pm	0113	M2	m		BDL	0.837	BDL	7.362	37.325	
R1999-0330	pm	0114	M2	f		BDL	0.226	BDL	5.920	33.587	
			M2		19	Mean	-	0.808	0.565	5.748	28.540
						SD	-	0.883	0.209	1.824	7.315
						n	0	19	8	19	19
R1999-0339	pm	0022	oparts	f	1		BDL	BDL	0.787	6.334	32.002

Continued

**Table 6-13A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0344	pm	0012	smarco	f		BDL	9.928	2.013	7.631	30.584
R1999-0346	pm	0015	smarco	m		BDL	1.811	1.329	6.834	29.732
R1999-0347	pm	0023	smarco	m		BDL	3.783	0.883	6.648	39.506
R1999-0348	pm	0032	smarco	f		BDL	1.383	0.502	3.762	26.347
R1999-0349	pm	0034	smarco	m		BDL	2.147	0.699	5.508	23.836
R1999-0350	pm	0042	smarco	m		BDL	3.347	15.182	8.134	29.621
R1999-0351	pm	0053	smarco	m		BDL	1.151	0.910	5.835	39.698
R1999-0352	pm	0101	smarco	f		BDL	5.200	1.235	10.811	37.345
R1999-0353	pm	0105	smarco	f		BDL	7.317	0.954	13.067	39.164
R1999-0354	pm	0112	smarco	m		BDL	5.089	0.674	6.780	30.929
R1999-0355	pm	0125	smarco	m		BDL	1.887	BDL	8.330	31.375
R1999-0357	pm	0135	smarco	m		BDL	2.705	1.046	5.942	34.280
R1999-0361	pm	01525	smarco	f		BDL	1.264	0.507	5.990	23.724
R1999-0362	pm	0220	smarco	m		BDL	0.438	1.004	16.867	30.631
smarco						14	Mean	-	3.389	2.072
							SD	-	2.682	3.959
							n	0	14	3.445
								14	13	5.434
									14	14
R1999-0364	pm	0014	smarts	f		BDL	2.139	0.582	6.541	38.327
R1999-0370	pm	0024	smarts	f		BDL	4.322	0.576	5.055	34.911
R1999-0371	pm	0034	smarts	m		BDL	0.463	1.286	12.867	54.399
R1999-0372	pm	0043	smarts	f		BDL	2.268	0.521	3.526	28.637
R1999-0373	pm	0045	smarts	m		BDL	1.507	0.668	6.332	24.673
R1999-0374	pm	0102	smarts	m		BDL	2.963	0.782	4.927	29.835
R1999-0375	pm	0104	smarts	f		BDL	0.706	0.361	11.548	26.253
R1999-0376	pm	0121	smarts	f		BDL	0.168	0.308	3.784	21.572
R1999-0377	pm	0131	smarts	m		BDL	1.204	0.702	3.625	19.634
R1999-0379	pm	0133	smarts	m		BDL	0.340	0.323	5.290	34.156
R1999-0380	pm	0135	smarts	m		BDL	1.015	0.582	4.932	28.319
R1999-0381	pm	0142	smarts	m		BDL	0.950	0.600	6.583	46.492
R1999-0382	pm	0143	smarts	f		BDL	1.443	1.118	6.567	25.116
R1999-0387	pm	0230	smarts	m		BDL	5.332	0.843	6.574	32.617
R1999-0389	pm	0251	smarts	m		BDL	2.203	0.864	5.953	30.669
smarts						15	Mean	-	1.802	0.674
							SD	-	1.473	0.275
							n	0	15	2.653
								15	15	9.224
									15	15

**Table 6-14A.** Liver metal and As concentration; Snap Trap Animals. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	FieldID	Site	N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Meadow Vole</u>									
R1999-0093	mp	0025	smarts		0.385	2.862	0.195	5.080	27.836
R1999-0112	mp	0134	smarts		0.410	0.497	BDL	5.233	31.554
R1999-0116	mp	0142	smarts		0.669	0.704	0.155	4.372	33.522
R1999-0117	mp	0414	smarts		0.823	0.440	0.090	4.323	25.214
R1999-0400	mp	0103	smarts		0.473	2.084	0.170	4.757	29.278
				5	Mean 0.552	1.317	0.152	4.753	29.481
					SD 0.188	1.094	0.045	0.409	3.224
					n 5	5	4	5	5
<u>Deer Mouse</u>									
R1999-0125	pm	0105	anarts		0.213	0.120	BDL	7.167	30.495
R1999-0134	pm	9901	anarts		0.372	BDL	0.153	8.715	24.360
R1999-0135	pm	9902	anarts		0.554	1.023	0.422	6.744	35.525
				3	Mean 0.380	0.571	0.288	7.542	30.127
					SD 0.171	0.639	0.191	1.038	5.592
					n 3	2	2	3	3
R1999-0144	pm	0022	High 1		0.101	0.624	0.367	5.352	30.379
R1999-0157	pm	0123	High 1		0.246	0.069	0.334	5.970	34.834
R1999-0167	pm	0150	High 1		0.113	0.342	0.248	7.962	22.778
R1999-0169	pm	9901	High 1		0.197	0.513	0.279	5.861	28.378
				4	Mean 0.164	0.387	0.307	6.287	29.092
					SD 0.069	0.242	0.054	1.149	5.000
					n 4	4	4	4	4

Continued

**Table 6-14A.** Continued

SampleID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0197	pm	9901	High 2		BDL	0.191	0.344	5.376	24.009
R1999-0198	pm	9902	High 2		0.278	0.647	0.189	7.403	23.540
R1999-0199	pm	9903	High 2		BDL	0.658	0.148	5.539	28.350
R1999-0200	pm	9904	High 2		BDL	0.209	0.313	7.459	28.942
R1999-0201	pm	9905	High 2		0.441	0.444	0.129	5.519	20.519
R1999-0202	pm	9906	High 2		0.232	0.022	0.388	11.030	19.209
				6	Mean	0.317	0.362	0.252	7.054
					SD	0.110	0.262	0.110	2.171
				n	3	6	6	6	6
R1999-0211	pm	0114	Low 1		BDL	0.007	BDL	7.043	31.823
R1999-0226	pm	9901	Low 1		BDL	0.174	BDL	5.798	30.803
R1999-0227	pm	9902	Low 1		BDL	0.032	0.116	5.617	20.244
R1999-0228	pm	9903	Low 1		BDL	0.054	0.168	4.704	29.792
R1999-0229	pm	9904	Low 1		BDL	0.128	0.132	5.041	29.158
R1999-0230	pm	9905	Low 1		BDL	0.006	BDL	4.140	26.479
R1999-0231	pm	9906	Low 1		BDL	0.024	0.323	6.267	27.917
R1999-0232	pm	9907	Low 1		BDL	BDL	0.263	5.972	25.178
R1999-0233	pm	9908	Low 1		BDL	BDL	0.478	6.620	26.187
R1999-0234	pm	9909	Low 1		BDL	0.008	BDL	4.829	28.947
R1999-0235	pm	9910	Low 1		BDL	0.243	BDL	5.497	35.707
R1999-0236	pm	9911	Low 1		BDL	BDL	BDL	5.058	22.374
R1999-0237	pm	9912	Low 1		BDL	0.170	0.088	4.887	33.425
R1999-0238	pm	9913	Low 1		BDL	0.038	BDL	5.710	24.200
R1999-0239	pm	9914	Low 1		BDL	0.080	BDL	5.889	23.182
R1999-0240	pm	9915	Low 1		BDL	0.186	BDL	4.177	30.167
				16	Mean	#DIV/0!	0.088	0.224	5.453
					SD	#DIV/0!	0.082	0.140	0.824
				n	0	13	7	16	16
R1999-0252	pm	0052	Low 2		BDL	BDL	0.126	4.968	28.053
R1999-0255	pm	0110	Low 2		0.308	BDL	BDL	4.478	32.869
R1999-0258	pm	0130	Low 2		BDL	0.023	BDL	4.469	24.896
R1999-0269	pm	9901	Low 2		BDL	0.017	0.141	6.110	27.404
R1999-0270	pm	9902	Low 2		BDL	BDL	BDL	6.258	26.491
R1999-0271	pm	9903	Low 2		BDL	BDL	BDL	4.913	34.680
R1999-0272	pm	9904	Low 2		BDL	BDL	0.139	4.986	31.460
R1999-0273	pm	9905	Low 2		BDL	BDL	0.406	6.402	28.654
R1999-0274	pm	9907	Low 2		BDL	0.016	0.146	5.869	30.932
R1999-0275	pm	9908	Low 2		BDL	BDL	6.758	6.758	33.944

Continued

**Table 6-14A.** Continued

SampleID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0276	pm	9906	Low 2		BDL	BDL	BDL	6.441	36.136
				11	Mean 0.308	0.019	0.191	5.605	30.502
					SD #DIV/0!	0.004	0.120	0.851	3.664
					n 1	3	5	11	11
R1999-0292	pm	0130	Medium 1		0.969	0.034	0.488	4.870	27.493
R1999-0294	pm	0144	Medium 1		0.324	0.399	0.263	10.619	22.636
R1999-0301	pm	0222	Medium 1		0.157	0.585	0.663	8.500	33.076
R1999-0306	pm	9901	Medium 1		0.407	1.250	0.515	5.964	33.750
R1999-0307	pm	9902	Medium 1		0.288	0.045	BDL	5.344	26.288
R1999-0308	pm	9903	Medium 1		0.338	0.019	0.254	5.408	25.171
R1999-0309	pm	9904	Medium 1		BDL	0.821	BDL	5.580	22.631
R1999-0310	pm	9905	Medium 1		0.244	BDL	0.244	4.884	27.381
R1999-0311	pm	9906	Medium 1		BDL	0.201	0.515	7.570	29.653
				9	Mean 0.390	0.419	0.420	6.526	27.564
					SD 0.267	0.443	0.166	1.970	4.016
					n 7	8	7	9	9
R1999-0331	pm	9901	Medium 2		0.511	0.021	0.478	8.214	26.606
R1999-0332	pm	9902	Medium 2		0.168	1.520	0.543	7.655	34.823
R1999-0333	pm	9903	Medium 2		BDL	0.431	0.441	8.891	29.915
R1999-0334	pm	9904	Medium 2		BDL	0.379	0.259	5.515	21.018
R1999-0335	pm	9905	Medium 2		1.356	1.466	2.564	9.903	20.772
R1999-0336	pm	9906	Medium 2		BDL	0.601	0.446	6.013	24.820
				6	Mean 0.678	0.736	0.788	7.699	26.326
					SD 0.612	0.616	0.875	1.683	5.412
					n 3	6	6	6	6
R1999-0338	pm	0021	oparts		BDL	0.216	BDL	4.366	25.013
R1999-0340	pm	9901	oparts		BDL	0.107	0.114	3.544	14.806
R1999-0341	pm	9902	oparts		BDL	0.157	0.127	6.590	32.798
R1999-0342	pm	9903	oparts		BDL	0.071	0.233	5.038	22.562
R1999-0343	pm	9904	oparts		BDL	0.071	0.166	5.342	21.951
				5	Mean #DIV/0!	0.124	0.160	4.976	23.426
					SD #DIV/0!	0.062	0.053	1.136	6.473
					n 0.000	5.000	4.000	5.000	5.000

Continued

**Table 6-14A.** Continued

SampleID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0345	pm	0013	smarco		0.394	2.026	0.342	6.277	30.143	
R1999-0356	pm	0130	smarco		0.660	0.224	1.058	4.834	21.825	
R1999-0358	pm	0150	smarco		0.698	0.159	0.604	5.208	26.586	
R1999-0360	pm	0201	smarco		0.412	0.090	0.586	5.341	21.594	
R1999-0363	pm	9902	smarco		1.193	0.238	0.274	4.988	29.167	
				5	Mean	0.672	0.547	0.573	5.330	25.863
					SD	0.323	0.828	0.308	0.565	4.009
				n	n	5.000	5.000	5.000	5.000	5.000
R1999-0378	pm	0132	smarts		0.114	0.162	0.081	9.437	22.891	
R1999-0383	pm	0215	smarts		0.441	0.565	0.210	6.170	31.756	
R1999-0384	pm	0221	smarts		0.138	0.414	BDL	5.039	28.733	
R1999-0385	pm	0224	smarts		0.476	0.601	BDL	7.598	22.139	
R1999-0386	pm	0225	smarts		0.263	0.206	0.093	4.917	22.659	
R1999-0388	pm	0233	smarts		86.352	0.880	BDL	12.393	27.028	
R1999-0390	pm	0301	smarts		1.157	0.267	0.182	6.526	31.422	
R1999-0391	pm	9901	smarts		0.348	0.124	0.099	7.614	30.301	
R1999-0392	pm	9902	smarts		0.819	0.192	0.125	5.116	24.189	
R1999-0393	pm	9903	smarts		61.001	0.921	1.067	6.836	33.986	
				10	Mean	15.111	0.433	0.265	7.164	27.510
					SD	31.441	0.296	0.357	2.313	4.340
				n	n	10	10	7	10	10

**Table 6-15A.** Liver metal and As concentration. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	Site	FieldID	Sex	N							
						Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g		
<u>Gopher</u>												
R2000-0009	tt	Governor's Plot	01	f	1	0.070	5.021	0.260	9.116	36.320		
R2000-0035	tt	High	04	f		0.453	5.527	2.902	8.323	35.239		
R2000-0036	tt	High	03	f		0.717	8.013	0.671	8.926	35.624		
R2000-0037	tt	High	02	f		5.830	5.186	0.222	6.899	35.800		
R2000-0038	tt	High	01	f		4.213	0.690	1.117	13.119	30.989		
R2000-0039	tt	High	05	f		0.540	3.634	0.070	7.245	27.746		
R2000-0040	tt	High	06	f		0.285	0.303	1.462	9.944	33.086		
R2000-0041	tt	High	10	f		0.127	5.929	2.284	7.799	32.609		
R2000-0042	tt	High	07	f		0.185	0.900	0.443	10.923	30.214		
R2000-0043	tt	High	08	m		0.414	4.867	0.875	10.388	27.362		
R2000-0044	tt	High	09	m		4.690	11.053	3.695	60.424	32.590		
High						10	Mean	4.610	1.374	14.399	32.126	
							SD	2.226	3.411	16.282	3.048	
						n	10	10	10	10	10	
R2000-0069	tt	Low	03	m		BDL	0.140	BDL	6.449	31.126		
R2000-0070	tt	Low	02	f		0.119	0.217	BDL	6.774	27.353		
R2000-0071	tt	Low	04	m		0.017	3.278	0.122	10.678	31.901		
R2000-0072	tt	Low	05	f		0.091	4.501	0.429	10.606	32.282		
R2000-0073	tt	Low	06	f		BDL	2.984	0.225	7.035	28.527		
R2000-0074	tt	Low	07	m		BDL	4.319	0.208	7.716	29.635		
R2000-0075	tt	Low	08	f		BDL	2.788	0.267	8.336	29.260		
R2000-0076	tt	Low	09	f		BDL	0.357	0.034	6.273	24.833		
R2000-0077	tt	Low	10	f		0.208	3.196	3.749	8.939	26.857		
Low						9	Mean	0.109	2.420	0.719	8.090	29.086
							SD	0.079	1.733	1.342	1.688	2.475
						n	4	9	7	9	9	

Continued

**Table 6-15A.** Continued

SampleID	Species	Site	FieldID	Sex	N	Asg	Cdg	Pbg	Cug	Zng	
						ug/g	ug/g	ug/g	ug/g	ug/g	
R2000-0099	tt	Medium	02	f		30.615	20.070	0.152	10.405	31.139	
R2000-0100	tt	Medium	01	m		0.431	2.094	0.242	5.200	31.666	
R2000-0101	tt	Medium	05	m		0.524	2.356	0.083	8.701	29.261	
R2000-0102	tt	Medium	03	m		BDL	2.996	0.240	5.793	27.908	
R2000-0103	tt	Medium	04	m		31.605	0.791	0.157	16.571	25.228	
R2000-0104	tt	Medium	08	m		6.072	0.971	0.080	11.948	26.753	
R2000-0105	tt	Medium	07	f		0.348	19.073	0.117	10.278	29.582	
R2000-0106	tt	Medium	06	m		BDL	17.842	0.229	7.660	31.715	
R2000-0107	tt	Medium	10	f		17.634	2.795	0.075	12.940	32.098	
R2000-0108	tt	Medium	09	m		14.354	0.667	0.032	5.945	16.821	
Medium					10	Mean	12.698	6.965	0.141	9.544	28.217
						SD	13.097	8.356	0.076	3.623	4.616
					n	8	10	10	10	10	10

**Table 6-16A.** Kidney metal and As concentration. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species	FieldID	Site	N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Gopher</u>									
R1999-0001	gopher	01	high		BDL	3.867	1.319	4.081	17.555
R1999-0002	gopher	02	high		BDL	23.737	7.209	6.583	27.335
R1999-0003	gopher	03	high		1.212	2.299	5.145	3.869	23.141
R1999-0004	gopher	06	high		0.711	2.699	BDL	4.595	25.622
R1999-0005	gopher	04	high		BDL	1.738	4.511	7.160	26.057
R1999-0006	gopher	05	high		0.807	5.108	1.749	4.108	24.616
			high	6	Mean 0.910	6.575	3.987	5.066	24.054
					SD 0.266	8.494	2.456	1.430	3.482
					n 3	6	5	6	6
R1999-0007	gopher	01	low		BDL	BDL	4.693	5.160	22.664
R1999-0008	gopher	03	low		0.256	BDL	BDL	4.168	24.546
R1999-0009	gopher	02	low		BDL	BDL	BDL	4.884	26.082
R1999-0010	gopher	04	low		BDL	BDL	BDL	3.055	17.541
R1999-0011	gopher	05	low		BDL	BDL	2.841	4.812	22.647
R1999-0012	gopher	06	low		BDL	BDL	BDL	4.987	22.632
			low	6	Mean 0.256	-	3.767	4.511	22.685
					SD -	-	1.310	0.789	2.880
					n 1	0	2	6	6
R1999-0013	gopher	01	medium		0.749	3.513	BDL	4.522	25.058
R1999-0014	gopher	04	medium		BDL	37.944	BDL	8.200	34.706
R1999-0015	gopher	06	medium		BDL	25.011	4.773	6.115	34.794
R1999-0016	gopher	07	medium		BDL	25.999	BDL	4.276	23.995
R1999-0017	gopher	02	medium		0.185	9.673	BDL	3.396	24.688
R1999-0018	gopher	03	medium		0.185	2.734	1.922	3.407	22.868
R1999-0019	gopher	05	medium		BDL	14.254	BDL	4.899	29.343
			medium	7	Mean 0.373	17.018	3.347	4.973	27.922
					SD 0.326	13.105	2.016	1.701	5.081
					n 3	7	2	7	7

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Meadow Vole</u>									
R1999-0021	mp	0021	anarts		BDL	1.121	BDL	5.784	27.197
R1999-0022	mp	0022	anarts		BDL	3.421	BDL	5.647	23.771
R1999-0023	mp	0043	anarts		0.755	BDL	BDL	5.763	25.162
R1999-0024	mp	0045	anarts		1.297	1.793	BDL	12.845	24.405
R1999-0025	mp	0055	anarts		BDL	BDL	BDL	5.848	21.452
R1999-0026	mp	1001	anarts		BDL	1.463	2.367	4.677	25.395
R1999-0027	mp	0031	anarts		BDL	BDL	BDL	5.497	22.484
R1999-0028	mp	1002	anarts		BDL	1.221	BDL	5.289	28.895
			anarts	8	Mean	1.026	1.804	2.367	6.419
					SD	0.383	0.940	-	24.845
					n	2	5	1	2.413
								8	8
R1999-0029	mp	0021	H1		BDL	21.113	BDL	7.023	35.293
R1999-0030	mp	0022	H1		BDL	11.524	2.899	8.748	29.038
			H1	2	Mean	-	16.318	2.899	7.885
					SD	-	6.780	-	32.165
					n	0	2	1	4.423
								2	2
R1999-0032	mp	0042	H2		BDL	26.951	BDL	6.284	29.166
R1999-0033	mp	0044	H2		BDL	5.601	1.997	6.089	26.134
R1999-0034	mp	0051	H2		BDL	3.904	BDL	6.183	23.825
R1999-0035	mp	0055	H2		0.337	6.563	BDL	5.403	26.342
R1999-0036	mp	0024	H2		BDL	11.465	BDL	6.824	25.233
R1999-0037	mp	0025	H2		BDL	4.596	1.308	6.245	26.216
R1999-0038	mp	0041	H2		BDL	3.354	2.355	5.425	23.335
R1999-0039	mp	0053	H2		BDL	3.470	BDL	6.299	28.466
R1999-0040	mp	0102	H2		BDL	0.917	BDL	6.908	22.065
R1999-0042	mp	0120	H2		BDL	2.913	BDL	8.181	23.688
			H2	10	Mean	0.337	6.973	1.887	6.384
					SD	-	7.564	0.532	25.447
					n	1	10	3	2.272
								10	10
R1999-0045	mp	0110	L2		BDL	1.188	1.710	8.281	23.341
R1999-0043	mp	00313	L2		BDL	BDL	BDL	1.074	4.521
R1999-0044	mp	0041	L2		BDL	BDL	2.282	7.956	24.203
			L2	3	Mean	-	1.188	1.996	5.770
					SD	-	-	0.404	17.355
					n	0	1	2	4.070
								3	11.123
								3	3

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0046	mp	0012	M1		3.012	3.921	BDL	10.495	20.884
R1999-0047	mp	0032	M1		BDL	9.304	2.929	4.488	24.326
			M1	2	Mean	3.012	6.612	2.929	7.491
					SD	-	3.806	-	4.248
					n	1	2	1	2
									2
R1999-0052	mp	0032	M2		BDL	12.669	2.820	9.406	27.299
R1999-0055	mp	0041	M2		5.290	5.992	BDL	16.005	29.219
R1999-0054	mp	0035	M2		BDL	1.390	2.401	6.377	23.883
R1999-0056	mp	0051	M2		BDL	3.592	BDL	5.231	20.532
			M2	4	Mean	5.290	5.911	2.610	9.255
					SD	-	4.882	0.296	25.233
					n	1	4	2	3.833
								4	4
R1999-0059	mp	0031	oparts		BDL	BDL	BDL	6.629	25.800
R1999-0057	mp	0023	oparts		BDL	1.075	3.166	7.375	28.378
R1999-0058	mp	0024	oparts		BDL	BDL	BDL	9.351	33.132
R1999-0060	mp	4425	oparts		BDL	BDL	BDL	5.336	28.257
			oparts	4	Mean	-	1.075	3.166	28.892
					SD	-	-	-	3.066
					n	0	1	1	4
								1.679	4
R1999-0061	mp	0011	smarco		2.117	BDL	BDL	8.913	23.005
R1999-0069	mp	0035	smarco		7.214	1.097	BDL	17.652	20.144
R1999-0077	mp	0103	smarco		4.368	1.114	BDL	15.374	20.007
R1999-0082	mp	0105	smarco		29.802	BDL	BDL	63.795	27.986
R1999-0088	mp	0111	smarco		BDL	BDL	BDL	5.847	22.868
R1999-0074	mp	0043	smarco		0.659	BDL	BDL	9.913	24.623
R1999-0075	mp	0052	smarco		BDL	BDL	BDL	5.310	21.068
R1999-0076	mp	0055	smarco		2.220	BDL	BDL	12.777	21.797
R1999-0087	mp	0106	smarco		0.962	BDL	BDL	9.341	34.466
			smarco	9	Mean	6.763	1.105	-	16.547
					SD	10.407	0.012	-	23.996
					n	7	2	0	18.180
								9	4.642
								9	9

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0094	mp	0032	smarts		32.786	9.369	2.189	59.770	23.577	
R1999-0095	mp	0034	smarts		28.858	19.815	BDL	51.401	29.724	
R1999-0099	mp	0044	smarts		2.674	2.120	1.800	9.024	19.881	
R1999-0106	mp	0113	smarts		20.858	2.513	BDL	42.785	21.245	
R1999-0108	mp	0120	smarts		8.154	1.252	BDL	19.746	19.821	
R1999-0105	mp	0055	smarts		BDL	BDL	BDL	4.271	20.332	
R1999-0109	mp	0123	smarts		0.776	2.206	BDL	8.319	23.515	
R1999-0111	mp	0131	smarts		1.684	BDL	BDL	12.984	33.387	
R1999-0113	mp	0133	smarts		BDL	2.191	BDL	4.505	21.921	
R1999-0110	mp	0135	smarts		11.164	1.033	BDL	29.326	24.067	
			smarts	10	Mean	13.369	5.062	1.995	24.213	23.747
					SD	12.618	6.530	0.275	20.521	4.478
					n	8	8	2	10	10

Deer Mouse

R1999-0119	pm	0023	anarts		BDL	BDL	BDL	6.168	25.873	
R1999-0121	pm	0041	anarts		BDL	BDL	BDL	12.291	29.310	
R1999-0123	pm	0101	anarts		BDL	BDL	3.676	6.324	25.077	
R1999-0129	pm	0114	anarts		BDL	BDL	BDL	4.261	25.177	
R1999-0130	pm	0115	anarts		BDL	BDL	BDL	4.575	25.891	
R1999-0132	pm	0122	anarts		BDL	BDL	BDL	9.496	22.694	
R1999-0120	pm	0035	anarts		BDL	BDL	BDL	5.902	22.753	
R1999-0122	pm	0045	anarts		BDL	BDL	BDL	5.101	23.119	
R1999-0124	pm	0104	anarts		BDL	BDL	BDL	6.363	19.436	
R1999-0126	pm	0110	anarts		BDL	BDL	BDL	7.256	26.427	
R1999-0127	pm	0112	anarts		BDL	BDL	BDL	5.825	23.525	
R1999-0128	pm	0113	anarts		BDL	BDL	3.090	8.328	25.270	
R1999-0131	pm	0120	anarts		BDL	BDL	BDL	5.397	19.834	
R1999-0133	pm	0123	anarts		BDL	1.451	4.113	6.340	32.514	
			anarts	14	Mean	-	1.451	3.626	6.688	24.779
					SD	-	-	0.513	2.127	3.417
					n	0	1	3	14	14

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0136	pm	0013	H1		BDL	3.911	BDL	5.590	27.334	
R1999-0137	pm	0015	H1		BDL	4.971	2.339	5.309	28.421	
R1999-0148	pm	0043	H1		BDL	1.518	2.437	4.324	34.758	
R1999-0151	pm	0055	H1		BDL	3.257	BDL	5.643	24.374	
R1999-0153	pm	0110	H1		BDL	4.825	BDL	7.432	34.256	
R1999-0154	pm	0111	H1		BDL	4.660	2.936	11.242	27.145	
R1999-0156	pm	0114	H1		BDL	2.845	BDL	4.908	58.367	
R1999-0158	pm	0131	H1		BDL	1.468	3.709	5.931	19.194	
R1999-0160	pm	0135	H1		0.392	8.788	BDL	5.032	28.860	
R1999-0161	pm	0140	H1		BDL	1.805	BDL	8.159	27.135	
R1999-0163	pm	0142	H1		BDL	6.332	BDL	5.751	26.123	
R1999-0166	pm	0145	H1		BDL	BDL	3.279	4.750	24.831	
R1999-0168	pm	0201	H1		BDL	2.079	3.012	5.182	20.908	
R1999-0143	pm	0021	H1		1.050	2.086	BDL	7.153	33.953	
R1999-0146	pm	0035	H1		BDL	5.594	BDL	8.768	29.157	
R1999-0147	pm	0042	H1		BDL	4.101	BDL	6.809	23.241	
R1999-0150	pm	0054	H1		0.459	4.688	2.719	6.860	30.579	
R1999-0152	pm	0104	H1		BDL	3.318	BDL	9.262	27.165	
R1999-0155	pm	0112	H1		BDL	4.142	BDL	4.813	32.154	
R1999-0159	pm	0132	H1		BDL	3.972	BDL	13.446	26.300	
R1999-0164	pm	0143	H1		BDL	3.955	BDL	6.070	23.846	
			H1	21	Mean	0.634	3.916	2.919	6.783	28.957
					SD	0.362	1.783	0.478	2.315	7.903
					n	3	20	7	21	21
R1999-0170	pm	0022	H2		1.611	9.275	BDL	8.040	29.707	
R1999-0174	pm	0035	H2		BDL	5.794	2.888	4.991	26.724	
R1999-0175	pm	0041	H2		BDL	5.415	BDL	8.154	29.787	
R1999-0183	pm	0114	H2		BDL	BDL	2.883	4.844	19.947	
R1999-0184	pm	0115	H2		BDL	1.755	2.246	4.592	23.986	
R1999-0185	pm	0121	H2		BDL	4.369	2.092	4.530	17.580	
R1999-0187	pm	0125	H2		BDL	12.113	2.557	6.629	30.182	
R1999-0189	pm	0132	H2		BDL	BDL	BDL	7.226	21.220	
R1999-0192	pm	0135	H2		BDL	3.375	BDL	7.767	29.801	
R1999-0172	pm	0031	H2		BDL	5.440	BDL	5.174	29.164	
R1999-0173	pm	0034	H2		BDL	4.167	BDL	8.292	33.592	

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0176	pm	0042	H2		1.109	2.431	BDL	6.787	26.773	
R1999-0180	pm	0053	H2		BDL	8.433	BDL	7.786	22.690	
R1999-0188	pm	0130	H2		BDL	BDL	3.729	4.941	20.614	
R1999-0190	pm	0133	H2		BDL	BDL	BDL	5.737	12.647	
R1999-0191	pm	0134	H2		BDL	3.016	BDL	8.939	28.723	
R1999-0193	pm	0140	H2		BDL	2.064	BDL	10.769	25.666	
R1999-0194	pm	0141	H2		BDL	BDL	BDL	8.483	23.210	
R1999-0195	pm	0142	H2		BDL	3.598	3.651	8.358	34.895	
R1999-0196	pm	1121	H2		0.557	4.327	BDL	7.787	34.228	
			H2	20	Mean	1.092	5.038	2.864	6.991	26.057
					SD	0.527	2.897	0.638	1.746	5.820
					n	3	15	7	20	20
R1999-0207	pm	0031	L1		BDL	BDL	4.336	6.405	28.174	
R1999-0209	pm	0101	L1		BDL	BDL	BDL	8.105	24.334	
R1999-0210	pm	0112	L1		BDL	1.157	2.537	4.122	21.184	
R1999-0213	pm	0122	L1		BDL	48.825	5.002	5.596	23.736	
R1999-0214	pm	0123	L1		BDL	BDL	2.046	5.192	17.225	
R1999-0216	pm	0130	L1		BDL	BDL	BDL	8.131	20.610	
R1999-0217	pm	0131	L1		BDL	BDL	BDL	6.314	27.389	
R1999-0218	pm	0132	L1		BDL	BDL	BDL	4.155	22.087	
R1999-0221	pm	0135	L1		BDL	BDL	BDL	6.507	26.725	
R1999-0222	pm	0140	L1		BDL	BDL	BDL	6.567	31.917	
R1999-0225	pm	0404	L1		BDL	BDL	BDL	11.438	72.485	
R1999-0203	pm	0012	L1		BDL	BDL	BDL	6.525	22.108	
R1999-0205	pm	0023	L1		BDL	BDL	BDL	4.581	24.671	
R1999-0206	pm	0024	L1		BDL	BDL	4.859	8.487	34.070	
R1999-0208	pm	0042	L1		0.576	BDL	BDL	5.275	24.319	
R1999-0215	pm	0124	L1		BDL	BDL	BDL	6.599	28.032	
R1999-0219	pm	0133	L1		BDL	BDL	3.189	6.948	28.914	
R1999-0220	pm	0134	L1		BDL	BDL	BDL	5.113	18.816	
R1999-0223	pm	0141	L1		BDL	BDL	4.251	8.714	42.025	
R1999-0224	pm	0142	L1		BDL	BDL	BDL	5.764	21.388	
			L1	20	Mean	0.576	24.991	3.746	6.527	28.010
					SD	-	33.707	1.161	1.778	11.925
					n	1	2	7	20	20

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0242	pm	0012	L2		BDL	BDL	BDL	5.933	21.545
R1999-0247	pm	0031	L2		BDL	2.137	BDL	6.536	25.057
R1999-0249	pm	0033	L2		BDL	1.467	1.834	5.782	24.493
R1999-0250	pm	0034	L2		BDL	0.831	BDL	7.330	26.956
R1999-0253	pm	0054	L2		BDL	BDL	3.626	5.881	40.630
R1999-0254	pm	0055	L2		BDL	BDL	BDL	7.238	21.082
R1999-0257	pm	0121	L2		BDL	BDL	BDL	9.099	21.378
R1999-0261	pm	0134	L2		BDL	0.228	BDL	1.323	3.290
R1999-0263	pm	0140	L2		BDL	BDL	BDL	11.469	20.739
R1999-0264	pm	0141	L2		BDL	BDL	BDL	5.262	28.611
R1999-0241	pm	0011	L2		BDL	1.187	BDL	6.147	25.047
R1999-0243	pm	0013	L2		BDL	1.123	BDL	6.707	22.374
R1999-0244	pm	0022	L2		BDL	2.302	BDL	5.410	22.626
R1999-0245	pm	0023	L2		BDL	2.804	BDL	5.576	25.569
R1999-0248	pm	0032	L2		BDL	1.969	BDL	6.380	26.354
R1999-0256	pm	0112	L2		BDL	BDL	0.856	1.603	5.241
R1999-0260	pm	0133	L2		BDL	BDL	2.794	5.543	21.609
R1999-0265	pm	0142	L2		BDL	BDL	BDL	10.608	24.379
R1999-0267	pm	0144	L2		BDL	BDL	BDL	4.425	27.689
R1999-0268	pm	0145	L2		BDL	BDL	3.820	6.036	25.153
			L2	20	Mean	-	1.561	2.586	6.214
					SD	-	0.810	1.246	2.396
					n	0	9	5	20
									7.729
R1999-0279	pm	0014	M1		BDL	8.482	BDL	5.945	24.778
R1999-0281	pm	0021	M1		BDL	4.052	2.303	5.517	25.834
R1999-0283	pm	0025	M1		1.068	3.985	2.847	6.699	33.161
R1999-0285	pm	0044	M1		BDL	9.446	2.689	10.247	31.968
R1999-0286	pm	0053	M1		BDL	4.691	3.769	4.369	40.859
R1999-0295	pm	0151	M1		BDL	1.737	BDL	5.584	26.589
R1999-0296	pm	0155	M1		BDL	2.004	3.093	6.151	30.905
R1999-0300	pm	0221	M1		BDL	1.165	BDL	11.684	19.585
R1999-0302	pm	0232	M1		BDL	BDL	BDL	7.824	21.106
R1999-0303	pm	0235	M1		BDL	4.232	BDL	4.831	24.621
R1999-0304	pm	0242	M1		BDL	1.265	BDL	5.229	20.947
R1999-0305	pm	0243	M1		BDL	BDL	2.776	5.460	21.862
R1999-0278	pm	0013	M1		BDL	3.756	2.987	6.217	22.953

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0280	pm	0015	M1		0.482	2.520	BDL	9.992	22.923	
R1999-0282	pm	0024	M1		BDL	2.121	3.189	5.427	26.129	
R1999-0288	pm	0111	M1		BDL	7.121	BDL	5.063	25.310	
R1999-0289	pm	0114	M1		BDL	6.239	BDL	6.474	30.147	
R1999-0290	pm	0125	M1		BDL	4.895	BDL	7.599	27.197	
R1999-0297	pm	0213	M1		BDL	2.418	3.145	6.350	26.733	
R1999-0299	pm	0220	M1		BDL	10.908	BDL	7.681	27.455	
			M1	20	Mean	0.775	4.502	2.977	6.717	
					SD	0.414	2.889	0.404	1.948	
					n	2	18	9	20	
									20	
R1999-0313	pm	0034	M2		BDL	6.600	BDL	6.289	26.622	
R1999-0314	pm	0041	M2		BDL	3.121	BDL	4.746	27.146	
R1999-0315	pm	0042	M2		1.325	2.353	BDL	8.571	24.357	
R1999-0317	pm	0051	M2		BDL	10.121	BDL	6.436	25.471	
R1999-0321	pm	0055	M2		BDL	6.025	BDL	9.827	26.746	
R1999-0323	pm	0102	M2		BDL	13.020	2.075	5.615	29.340	
R1999-0326	pm	0110	M2		BDL	6.049	1.988	5.466	20.530	
R1999-0327	pm	0111	M2		BDL	BDL	BDL	6.243	21.792	
R1999-0330	pm	0114	M2		1.468	BDL	BDL	6.367	23.348	
R1999-0312	pm	0025	M2		BDL	BDL	BDL	5.803	22.275	
R1999-0316	pm	0045	M2		BDL	1.436	BDL	4.426	21.087	
R1999-0318	pm	0052	M2		BDL	BDL	BDL	4.542	20.412	
R1999-0319	pm	0053	M2		0.735	1.148	BDL	6.494	28.118	
R1999-0320	pm	0054	M2		BDL	BDL	3.057	12.389	30.724	
R1999-0322	pm	0101	M2		BDL	BDL	3.852	7.705	26.130	
R1999-0324	pm	0103	M2		BDL	2.043	BDL	5.138	18.208	
R1999-0325	pm	0105	M2		BDL	9.614	3.198	6.396	26.213	
R1999-0328	pm	0112	M2		BDL	BDL	BDL	6.569	22.940	
R1999-0329	pm	0113	M2		1.161	1.620	BDL	8.172	32.358	
			M2	19	Mean	1.172	5.263	2.834	6.694	
					SD	0.318	3.977	0.792	1.960	
					n	4	12	5	19	
									19	
R1999-0339	pm	0022	oparts	1		BDL	BDL	BDL	6.615	26.348

Continued

**Table 6-16A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0344	pm	0012	smarco		BDL	5.817	BDL	6.840	25.094	
R1999-0348	pm	0032	smarco		BDL	5.923	BDL	4.246	24.918	
R1999-0352	pm	0101	smarco		BDL	11.852	2.706	6.544	29.475	
R1999-0353	pm	0105	smarco		BDL	17.415	5.134	4.747	30.018	
R1999-0361	pm	01525	smarco		BDL	10.038	3.031	5.129	28.986	
R1999-0346	pm	0015	smarco		BDL	27.811	3.661	6.265	30.495	
R1999-0350	pm	0042	smarco		BDL	20.332	BDL	6.339	30.408	
R1999-0354	pm	0112	smarco		BDL	26.253	BDL	7.626	32.023	
R1999-0355	pm	0125	smarco		BDL	12.435	2.435	10.138	31.329	
R1999-0357	pm	0135	smarco		BDL	4.688	4.198	5.368	23.937	
			smarco	10	Mean	-	14.256	3.527	6.324	28.668
					SD	-	8.391	1.016	1.690	2.915
					n	0	10	6	10	10
R1999-0364	pm	0014	smarts		0.539	5.707	BDL	50.621	31.818	
R1999-0370	pm	0024	smarts		BDL	25.781	BDL	6.119	30.182	
R1999-0372	pm	0043	smarts		BDL	13.852	2.133	5.538	30.748	
R1999-0375	pm	0104	smarts		BDL	3.394	1.808	7.501	26.442	
R1999-0376	pm	0121	smarts		BDL	BDL	2.412	6.426	25.830	
R1999-0382	pm	0143	smarts		0.320	4.004	BDL	5.719	26.652	
R1999-0371	pm	0034	smarts		BDL	5.199	BDL	4.780	29.464	
R1999-0373	pm	0045	smarts		8.467	6.044	BDL	92.570	392.905	
R1999-0377	pm	0131	smarts		BDL	3.594	BDL	5.019	21.694	
R1999-0380	pm	0135	smarts		BDL	2.414	BDL	6.807	27.190	
R1999-0387	pm	0230	smarts		2.598	11.986	2.808	7.319	34.771	
			smarts	11	Mean	2.981	8.197	2.290	18.038	61.609
					SD	3.799	7.231	0.424	28.105	109.934
					n	4	10	4	11	11

**Table 6-17A.** Kidney metal and As concentration. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn	
						ug/g	ug/g	ug/g	ug/g	ug/g	
<u>Gopher</u>											
R2000-0009	tt	Governor's Plot	01	f	1	0.253	18.523	0.335	12.528	35.738	
R2000-0035	tt	High	04	f		3.027	44.440	3.016	12.412	33.780	
R2000-0036	tt	High	03	f		1.001	88.231	0.805	44.942	61.567	
R2000-0037	tt	High	02	f		1.237	25.158	1.791	14.887	41.959	
R2000-0038	tt	High	01	f		1.083	2.332	0.741	12.138	35.536	
R2000-0039	tt	High	05	f		2.721	18.944	0.789	26.044	37.398	
R2000-0040	tt	High	06	f		1.285	1.231	1.440	5.905	24.880	
R2000-0041	tt	High	10	f		0.432	27.550	2.922	47.578	39.061	
R2000-0042	tt	High	07	f		0.794	4.315	3.523	38.975	34.529	
R2000-0043	tt	High	08	m		0.861	27.407	1.752	6.911	32.511	
R2000-0044	tt	High	09	m		1.097	46.653	1.331	35.213	57.438	
				High	10	Mean	1.354	28.626	1.811	24.501	39.866
						SD	0.840	26.393	1.011	16.068	11.322
						n	10	10	10	10	10
R2000-0068	tt	Low	01	f		0.428	12.640	BDL	6.226	32.113	
R2000-0069	tt	Low	03	m		BDL	BDL	0.301	20.696	23.312	
R2000-0070	tt	Low	02	f		BDL	BDL	BDL	14.248	29.752	
R2000-0071	tt	Low	04	m		BDL	12.703	BDL	7.096	29.185	
R2000-0072	tt	Low	05	f		0.351	18.509	0.282	4.601	25.102	
R2000-0073	tt	Low	06	f		BDL	15.017	0.241	5.763	27.475	
R2000-0074	tt	Low	07	m		BDL	11.397	0.293	5.136	26.096	
R2000-0075	tt	Low	08	f		BDL	15.574	0.347	5.088	27.831	
R2000-0076	tt	Low	09	f		0.318	0.954	0.381	18.609	27.736	
R2000-0077	tt	Low	10	f		0.576	14.602	0.840	17.880	65.499	
				Low	10	Mean	0.418	12.674	0.384	10.534	31.410
						SD	0.115	5.219	0.206	6.526	12.228
						n	4	8	7	10	10

Continued

**Table 6-17A.** Continued

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn
						ug/g	ug/g	ug/g	ug/g	ug/g
R2000-0099	tt	Medium	02	f		0.920	55.893	0.315	11.069	33.840
R2000-0100	tt	Medium	01	m		0.296	4.653	0.294	3.968	24.774
R2000-0101	tt	Medium	05	m		0.890	8.873	0.401	12.046	30.408
R2000-0102	tt	Medium	03	m		0.894	12.336	2.856	25.991	28.959
R2000-0103	tt	Medium	04	m		2.037	2.863	0.783	70.922	41.223
R2000-0104	tt	Medium	08	m		1.836	4.157	0.438	9.308	34.460
R2000-0105	tt	Medium	07	f		0.993	43.961	0.274	20.422	35.389
R2000-0106	tt	Medium	06	m		0.734	33.030	BDL	4.681	24.847
R2000-0107	tt	Medium	10	f		3.277	9.933	BDL	8.721	32.544
R2000-0108	tt	Medium	09	m		1.368	1.603	0.436	20.865	37.035
						Mean	17.730	0.725	18.799	32.348
						SD	19.389	0.876	19.697	5.224
						n	10	10	8	10
										10
<u>Deer Mouse</u>										
R2000-0012	pm	H1	0301	m		BDL	9.093	1.193	20.158	55.042
R2000-0013	pm	H1	0211	f		0.722	4.636	0.733	6.129	23.349
R2000-0014	pm	H1	0221	m		0.745	5.583	2.279	26.870	50.935
R2000-0015	pm	H1	0233	f		0.361	8.450	3.812	13.539	28.869
R2000-0016	pm	H1	0303	f		BDL	9.089	0.813	8.570	41.489
R2000-0017	pm	H1	0214	m		BDL	11.684	0.524	6.585	32.980
R2000-0018	pm	H1	0234	m		0.990	7.447	BDL	6.979	28.383
R2000-0019	pm	H1	0321	m		BDL	4.894	0.510	43.974	37.000
R2000-0020	pm	H1	0154	f		BDL	6.127	BDL	5.293	24.675
R2000-0021	pm	H1	0315	f		BDL	1.849	BDL	9.400	26.443
						Mean	6.885	1.409	14.750	34.917
						SD	2.832	1.224	12.424	11.069
						n	4	10	7	10
										10
R2000-0025	pm	H2	0225	f		2.340	5.331	BDL	8.041	34.953
R2000-0026	pm	H2	0223	f		BDL	4.492	1.029	5.148	35.641
R2000-0027	pm	H2	1241	f		BDL	3.909	0.699	7.553	26.932
R2000-0028	pm	H2	0112	m		BDL	4.917	0.535	14.400	42.595
R2000-0029	pm	H2	0154	m		BDL	2.727	0.573	3.568	26.808
R2000-0030	pm	H2	0220	f		0.560	4.690	1.130	5.865	25.250
R2000-0032	pm	H2	0213	m		BDL	5.917	BDL	5.165	33.876
R2000-0033	pm	H2	0221	m		BDL	5.932	BDL	5.844	44.024
R2000-0034	pm	H2	1001	f		BDL	13.709	0.629	24.091	60.927
						Mean	5.736	0.766	8.853	36.778
						SD	3.153	0.251	6.505	11.246
						n	2	9	6	9
										9

Continued

**Table 6-17A.** Continued

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn	
						ug/g	ug/g	ug/g	ug/g	ug/g	
R2000-0045	pm	L1	0302	f		BDL	1.971	0.240	4.977	18.476	
R2000-0046	pm	L1	0315	m		BDL	1.081	BDL	6.225	28.294	
R2000-0047	pm	L1	0330	f		BDL	4.281	BDL	5.478	29.880	
R2000-0048	pm	L1	0235	m		BDL	1.000	BDL	14.182	35.431	
R2000-0049	pm	L1	0233	m		BDL	1.362	BDL	5.852	28.102	
R2000-0050	pm	L1	0325	m		BDL	0.760	BDL	4.016	60.531	
R2000-0051	pm	L1	0304	f		BDL	1.826	BDL	16.620	35.147	
R2000-0052	pm	L1	0343	m		BDL	0.890	BDL	4.186	33.032	
R2000-0053	pm	L1	0155	m		BDL	1.547	BDL	32.161	43.874	
R2000-0054	pm	L1	0242	m		BDL	0.935	BDL	8.272	27.975	
R2000-0055	pm	L1	0323	f		BDL	0.607	0.725	3.264	17.625	
R2000-0056	pm	L1	0234	f		BDL	0.824	BDL	3.962	46.595	
		L1			12	Mean	-	1.424	0.482	9.100	33.747
						SD	-	0.997	0.343	8.390	12.035
					n	0	12	2	12	12	
R2000-0057	pm	L2	0211	m		BDL	0.768	0.515	37.783	35.660	
R2000-0058	pm	L2	0241	m		BDL	0.686	BDL	5.528	27.327	
R2000-0059	pm	L2	0212	m		BDL	1.752	1.013	11.216	38.716	
R2000-0060	pm	L2	0331	f		BDL	3.479	BDL	44.849	38.791	
R2000-0061	pm	L2	0204	m		BDL	0.524	BDL	5.780	23.518	
R2000-0062	pm	L2	0323	f		BDL	BDL	BDL	4.779	27.551	
R2000-0063	pm	L2	0235	m		BDL	1.143	BDL	57.135	38.338	
R2000-0064	pm	L2	0205	m		BDL	1.697	BDL	4.977	25.771	
R2000-0065	pm	L2	0214	m		BDL	1.170	BDL	11.889	33.373	
R2000-0066	pm	L2	0352	f		BDL	1.066	BDL	5.988	26.648	
R2000-0067	pm	L2	0240	f		BDL	1.314	BDL	10.620	27.178	
		L2			11	Mean	-	1.360	0.764	18.231	31.170
						SD	-	0.846	0.352	18.907	5.860
					n	0	10	2	11	11	

Continued

**Table 6-17A.** Continued

SampleID	Species	Site	FieldID	Sex	N	As	Cd	Pb	Cu	Zn
						ug/g	ug/g	ug/g	ug/g	ug/g
R2000-0078	pm	M1	0313	f		BDL	5.423	0.864	3.235	38.019
R2000-0079	pm	M1	0304	m		BDL	4.699	1.177	16.128	30.564
R2000-0080	pm	M1	0325	m		BDL	7.448	0.905	18.355	36.202
R2000-0081	pm	M1	0312	m		1.305	3.184	1.047	6.719	25.749
R2000-0082	pm	M1	0310	m		BDL	2.377	0.826	3.529	29.559
R2000-0083	pm	M1	0323	m		BDL	4.766	0.770	5.987	33.275
R2000-0084	pm	M1	0315	f		BDL	5.578	1.229	6.005	43.874
R2000-0085	pm	M1	0324	m		BDL	2.260	0.867	4.129	19.798
R2000-0086	pm	M1	0321	f		BDL	3.515	BDL	5.874	30.115
R2000-0087	pm	M1	0351	f		BDL	2.037	1.379	6.064	26.508
R2000-0088	pm	M1	0414	f		BDL	2.966	0.445	4.629	30.834
M1						11	Mean	1.305	4.023	0.951
							SD	-	1.702	0.267
							n	1	11	10
									11	11
R2000-0089	pm	M2	0131	f		BDL	6.942	BDL	8.561	24.770
R2000-0090	pm	M2	0144	m		BDL	2.929	BDL	6.359	36.837
R2000-0091	pm	M2	0135	f		BDL	1.764	0.385	2.831	14.724
R2000-0092	pm	M2	0141	f		BDL	2.170	1.740	2.028	14.517
R2000-0093	pm	M2	0142	m		BDL	10.476	BDL	6.980	30.463
R2000-0094	pm	M2	0204	m		1.298	5.339	0.928	8.762	46.402
R2000-0095	pm	M2	0153	m		BDL	3.427	BDL	3.685	29.059
R2000-0096	pm	M2	0215	f		0.547	3.592	0.973	12.999	32.353
R2000-0097	pm	M2	0213	m		BDL	6.693	BDL	5.766	31.870
R2000-0098	pm	M2	0221	f		BDL	1.825	0.630	2.981	28.012
M2						10	Mean	0.923	4.516	0.931
							SD	0.531	2.823	0.511
							n	2	10	5
									10	10

**Table 6-18A.** Kidney metal and As concentration. Anaconda Smelter Site, 1999; Snap trap Animals. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
<u>Gopher</u>									
R1999-0020	gopher	9901	anarts		0.247	0.545	1.346	4.887	22.646
<u>Meadow Vole</u>									
R1999-0093	mp	0025	smarts		12.969	6.048	1.868	27.784	37.163
R1999-0112	mp	0134	smarts		4.930	1.033	0.881	14.722	26.268
R1999-0116	mp	0142	smarts		30.860	1.300	1.404	46.756	32.465
R1999-0117	mp	0414	smarts		18.306	0.785	1.169	22.284	28.640
R1999-0400	mp	0103	smarts		26.339	2.005	BDL	40.040	21.829
					5	Mean	18.681	2.234	1.331
					SD	10.354	2.181	0.417	30.317
					n	5.000	5.000	4.000	29.273
									5.859
									5.000
R1999-0031	mp	0034	High 1		1.542	4.939	1.706	5.488	33.499
<u>Deer Mouse</u>									
R1999-0125	pm	0105	anarts		BDL	0.351	7.640	13.459	32.191
R1999-0134	pm	9901	anarts		0.806	0.151	1.048	21.795	29.029
R1999-0135	pm	9902	anarts		BDL	0.513	2.248	19.572	42.269
					3	Mean	0.806	0.338	3.646
					SD	#DIV/0!	0.181	3.511	18.275
					n	1	3	4.316	34.496
								6.914	27.333
									22.578
									24.905
									Continued

**Table 6-18A.** Continued

SampleID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0197	pm	9901	High 2		0.491	BDL	1.471	9.383	23.478	
R1999-0198	pm	9902	High 2		1.396	2.846	0.557	8.023	27.331	
R1999-0199	pm	9903	High 2		BDL	1.592	0.626	7.146	26.522	
R1999-0200	pm	9904	High 2		0.514	BDL	BDL	8.729	28.455	
R1999-0201	pm	9905	High 2		1.067	1.725	0.572	7.329	27.125	
R1999-0202	pm	9906	High 2		BDL	BDL	1.972	9.087	27.770	
				6	Mean	0.867	2.055	1.040	8.283	26.780
					SD	0.442	0.689	0.648	0.930	1.742
					n	4	3	5	6	6
R1999-0211	pm	0114	Low 1		BDL	BDL	BDL	6.538	25.692	
R1999-0226	pm	9901	Low 1		BDL	0.343	BDL	5.900	29.065	
R1999-0227	pm	9902	Low 1		BDL	0.073	BDL	5.793	26.715	
R1999-0228	pm	9903	Low 1		BDL	0.068	BDL	7.039	23.721	
R1999-0229	pm	9904	Low 1		BDL	0.418	1.605	4.922	21.152	
R1999-0230	pm	9905	Low 1		BDL	0.018	BDL	6.359	30.743	
R1999-0231	pm	9906	Low 1		BDL	0.034	1.277	13.643	24.023	
R1999-0232	pm	9907	Low 1		BDL	BDL	BDL	6.972	28.839	
R1999-0233	pm	9908	Low 1		BDL	BDL	BDL	7.514	24.643	
R1999-0235	pm	9910	Low 1		BDL	BDL	BDL	6.151	27.666	
R1999-0236	pm	9911	Low 1		BDL	BDL	BDL	7.086	29.903	
R1999-0237	pm	9912	Low 1		BDL	0.442	1.513	5.772	27.714	
R1999-0238	pm	9913	Low 1		BDL	0.113	0.700	9.218	33.184	
R1999-0239	pm	9914	Low 1		BDL	0.178	0.393	7.326	25.960	
R1999-0240	pm	9915	Low 1		BDL	1.283	0.411	6.501	27.898	
				15	Mean	#DIV/0!	0.297	0.983	7.116	27.128
					SD	#DIV/0!	0.381	0.550	2.058	3.072
					n	0	10	6	15	15
R1999-0252	pm	0052	Low 2		BDL	0.065	BDL	7.051	27.773	
R1999-0255	pm	0110	Low 2		BDL	BDL	1.740	6.811	55.004	
R1999-0258	pm	0130	Low 2		BDL	0.024	BDL	4.756	27.321	
R1999-0269	pm	9901	Low 2		BDL	0.043	BDL	9.529	30.263	
R1999-0270	pm	9902	Low 2		BDL	BDL	BDL	8.070	29.490	
R1999-0271	pm	9903	Low 2		BDL	BDL	BDL	5.874	37.726	
R1999-0272	pm	9904	Low 2		BDL	BDL	2.077	6.187	29.719	
R1999-0273	pm	9905	Low 2		BDL	BDL	0.638	9.385	250.239	
R1999-0274	pm	9907	Low 2		BDL	0.142	BDL	7.469	29.904	
R1999-0275	pm	9908	Low 2		BDL	BDL	BDL	5.731	40.708	

Continued

**Table 6-18A.** Continued

SampleID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0276	pm	9906	Low 2		BDL	BDL	BDL	7.315	26.385
				11	Mean #DIV/0!	0.068	1.485	7.107	53.139
					SD #DIV/0!	0.052	0.753	1.484	65.909
				n	0	4	3	11	11
R1999-0292	pm	0130	Medium 1		1.417	1.104	1.744	7.478	54.649
R1999-0294	pm	0144	Medium 1		1.104	0.886	0.816	7.084	31.370
R1999-0301	pm	0222	Medium 1		1.873	1.761	1.940	7.801	282.189
R1999-0306	pm	9901	Medium 1		1.436	5.384	1.341	8.633	32.717
R1999-0307	pm	9902	Medium 1		1.023	0.110	2.755	7.838	24.850
R1999-0308	pm	9903	Medium 1		2.718	0.082	4.618	13.756	33.965
R1999-0309	pm	9904	Medium 1		BDL	2.881	1.738	7.524	24.214
R1999-0310	pm	9905	Medium 1		BDL	0.195	0.299	7.804	27.235
R1999-0311	pm	9906	Medium 1		BDL	0.068	0.722	7.121	32.755
				9	Mean	1.595	1.386	1.775	8.338
					SD	0.627	1.774	1.297	2.083
				n	6	9	9	9	9
R1999-0331	pm	9901	Medium 2		BDL	0.048	0.613	9.597	24.877
R1999-0332	pm	9902	Medium 2		0.927	2.050	3.134	9.584	31.533
R1999-0333	pm	9903	Medium 2		BDL	0.812	1.187	7.502	26.180
R1999-0334	pm	9904	Medium 2		BDL	0.870	0.575	5.616	18.404
R1999-0335	pm	9905	Medium 2		1.788	1.656	2.566	17.927	23.665
R1999-0336	pm	9906	Medium 2		BDL	0.242	0.683	5.821	21.079
				6	Mean	1.357	0.946	1.460	9.341
					SD	0.609	0.781	1.114	4.550
				n	2	6	6	6	6
R1999-0338	pm	0021	oparts		BDL	0.594	0.874	6.507	23.841
R1999-0340	pm	9901	oparts		BDL	0.209	2.490	4.765	19.864
R1999-0341	pm	9902	oparts		BDL	0.475	BDL	81.998	205.170
R1999-0342	pm	9903	oparts		BDL	0.162	1.078	6.514	26.779
R1999-0343	pm	9904	oparts		BDL	0.110	0.687	8.339	28.929
				5	Mean #DIV/0!	0.310	1.282	21.625	60.917
					SD #DIV/0!	0.212	0.821	33.773	80.712
				n	0	5	4	5	5

Continued

**Table 6-18A.** Continued

SampleID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0345	pm	0013	smarco		BDL	4.855	16.658	8.265	28.878	
R1999-0356	pm	0130	smarco		1.415	0.456	15.782	5.800	21.894	
R1999-0358	pm	0150	smarco		2.120	0.423	12.879	9.674	47.708	
R1999-0360	pm	0201	smarco		0.528	0.330	5.852	6.761	24.330	
R1999-0363	pm	9902	smarco		3.975	0.583	4.059	12.576	28.013	
				5	Mean	2.009	1.329	11.046	8.615	30.164
					SD	1.463	1.973	5.768	2.659	10.204
					n	4	5	5	5	5
R1999-0378	pm	0132	smarts		0.914	2.064	1.944	7.813	27.752	
R1999-0383	pm	0215	smarts		1.101	1.262	2.743	8.579	34.648	
R1999-0384	pm	0221	smarts		0.921	1.045	2.780	31.693	33.404	
R1999-0385	pm	0224	smarts		5.928	1.197	1.635	24.282	21.680	
R1999-0386	pm	0225	smarts		2.140	3.476	1.551	7.212	29.333	
R1999-0388	pm	0233	smarts		215.630	1.470	1.446	121.047	25.982	
R1999-0390	pm	0301	smarts		5.183	0.440	1.701	11.578	27.110	
R1999-0391	pm	9901	smarts		0.782	0.175	0.908	9.845	21.483	
R1999-0392	pm	9902	smarts		16.903	0.397	2.410	20.907	29.877	
R1999-0393	pm	9903	smarts		5.101	4.689	6.592	8.768	26.785	
				10	Mean	25.460	1.622	2.371	25.172	27.805
					SD	66.996	1.441	1.597	34.708	4.309
					n	10	10	10	10	10

**Table 6-19A.** Mammary gland metal and As concentration. Anaconda Smelter Site, 1999.  
BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
<u>Gopher</u>									
R1999-0001	gopher	01	high		BDL	0.2435	0.463	0.895	8.608
R1999-0002	gopher	02	high		BDL	0.078	BDL	0.421	3.198
R1999-0003	gopher	03	high		BDL	0.1893	BDL	3.221	9.105
			high	3	Mean	-	0.170	0.463	1.512
					SD	-	0.084	-	6.970
					n	0	3	1	3.277
R1999-0007	gopher	01	low	1	BDL	BDL	BDL	1.069	11.449
R1999-0013	gopher	01	medium		BDL	BDL	BDL	7.388	16.750
R1999-0016	gopher	04	medium		BDL	0.2523	BDL	1.437	6.952
R1999-0018	gopher	06	medium		BDL	BDL	BDL	1.109	7.000
R1999-0019	gopher	07	medium		BDL	0.339	BDL	2.740	8.515
			medium	4	Mean	-	0.296	-	3.168
					SD	-	0.061	-	9.804
					n	0	2	0	4.687
								4	4
<u>Meadow Vole</u>									
R1999-0021	mp	0021	anarts		BDL	BDL	BDL	0.926	7.867
R1999-0022	mp	0022	anarts		BDL	BDL	0.424	0.689	5.840
R1999-0024	mp	0043	anarts		BDL	BDL	4.439	2.098	16.575
R1999-0025	mp	0045	anarts		BDL	BDL	BDL	5.916	10.828
R1999-0026	mp	0055	anarts		BDL	0.1836	BDL	0.801	5.651
R1999-0027	mp	1001	anarts		BDL	BDL	BDL	2.078	12.950
			anarts	6	Mean	-	0.184	2.432	2.085
					SD	-	2.839	1.981	9.952
					n	0	1	2	4.322
								6	6
R1999-0029	mp	0021	H1		BDL	BDL	BDL	1.802	9.304
R1999-0030	mp	0022	H1		BDL	0.0417	0.334	3.185	30.878
			H1	2	Mean	-	0.042	0.334	2.493
					SD	-	-	-	20.091
					n	0	1	1	0.978
								2	15.255

Continued

**Table 6-19A.** Continued

Sample ID	Species	FieldID	Site	N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0035	mp	0042	H2		BDL	0.1677	0.300	7.286	13.810
R1999-0036	mp	0044	H2		BDL	0.0635	0.264	7.524	16.021
R1999-0037	mp	0051	H2		BDL	BDL	BDL	1.799	11.702
R1999-0039	mp	0055	H2		BDL	BDL	0.329	4.234	56.011
			H2	4	Mean	-	0.116	0.297	5.211
					SD	-	0.074	0.033	2.724
					n	0	2	3	21.157
R1999-0045	mp	0110	L2	1	BDL	BDL	BDL	1.327	7.687
R1999-0046	mp	0012	M1		BDL	BDL	BDL	1.320	19.913
R1999-0047	mp	0032	M1		BDL	0.0837	0.303	20.789	19.348
			M1	2	Mean	-	0.084	0.303	11.055
					SD	-	-	-	19.630
					n	0	1	1	13.767
								2	0.399
R1999-0052	mp	0032	M2		BDL	0.1031	0.656	5.157	15.185
R1999-0055	mp	0041	M2		BDL	BDL	0.292	2.328	16.194
			M2	2	Mean	-	0.103	0.474	3.743
					SD	-	-	0.258	15.689
					n	0	1	2	2.001
								2	0.713
R1999-0059	mp	0031	oparts	1	BDL	BDL	BDL	0.486	4.176
R1999-0061	mp	0011	smarco		BDL	BDL	BDL	8.690	17.055
R1999-0069	mp	0035	smarco		BDL	BDL	0.584	10.451	25.728
R1999-0077	mp	0103	smarco		BDL	BDL	0.494	12.795	25.527
R1999-0082	mp	0105	smarco		BDL	BDL	1.049	8.308	22.141
R1999-0088	mp	0111	smarco		BDL	BDL	0.646	10.301	22.108
			smarco	5	Mean	-	-	0.693	10.109
					SD	-	-	0.245	22.512
					n	0	0	4	3.518
								5	5
R1999-0094	mp	0032	smarts		BDL	BDL	0.720	1.490	7.681
R1999-0095	mp	0034	smarts		BDL	0.0475	BDL	4.599	10.584
R1999-0099	mp	0044	smarts		BDL	BDL	0.561	11.545	20.756
R1999-0106	mp	0113	smarts		BDL	0.0301	BDL	4.562	15.565
R1999-0108	mp	0120	smarts		0.541546	0.0521	0.258	6.681	14.518
			smarts	5	Mean	0.542	0.043	0.513	5.775
					SD	-	0.012	0.235	13.821
					n	1	3	3	3.719
								5	4.995
								5	5

Continued

**Table 6-19A.** Continued

Sample ID	Species	FieldID	Site	N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Deer Mouse</u>									
R1999-0119	pm	0023	anarts		BDL	BDL	BDL	9.824	12.506
R1999-0121	pm	0041	anarts		BDL	BDL	5.812	2.505	23.417
R1999-0123	pm	0101	anarts		BDL	BDL	BDL	1.169	7.542
			anarts	3	Mean	-	-	5.812	4.499
					SD	-	-	4.660	8.121
					n	0	0	1	3
R1999-0136	pm	0013	H1		BDL	BDL	0.752	3.743	33.347
R1999-0137	pm	0015	H1		BDL	BDL	BDL	6.252	21.043
R1999-0148	pm	0043	H1		BDL	BDL	BDL	0.822	13.277
R1999-0151	pm	0055	H1		BDL	BDL	0.201	4.826	16.754
R1999-0153	pm	0110	H1		BDL	BDL	0.929	3.856	19.033
R1999-0154	pm	0111	H1		BDL	BDL	0.613	3.229	26.521
R1999-0156	pm	0114	H1		BDL	BDL	BDL	2.613	7.885
R1999-0158	pm	0131	H1		BDL	BDL	BDL	3.563	14.364
R1999-0160	pm	0135	H1		BDL	BDL	BDL	2.320	19.910
R1999-0163	pm	0142	H1		BDL	BDL	BDL	4.646	10.240
R1999-0168	pm	0201	H1		BDL	BDL	BDL	1.353	11.907
			H1	11	Mean	-	-	0.624	3.384
					SD	-	-	0.310	1.572
					n	0	0	4	11
R1999-0170	pm	0022	H2		BDL	0.0509	0.316	5.260	23.481
R1999-0174	pm	0035	H2		BDL	BDL	BDL	5.046	10.584
R1999-0175	pm	0041	H2		BDL	BDL	0.248	1.618	17.647
R1999-0183	pm	0114	H2		BDL	BDL	BDL	1.828	8.245
R1999-0184	pm	0115	H2		BDL	BDL	BDL	1.950	16.565
R1999-0185	pm	0121	H2		BDL	0.0477	0.240	2.332	15.593
R1999-0187	pm	0125	H2		BDL	0.043	0.218	1.577	15.481
R1999-0189	pm	0132	H2		BDL	BDL	BDL	0.880	8.456
R1999-0192	pm	0135	H2		BDL	BDL	BDL	1.333	11.773
			H2	9	Mean	-	0.047	0.255	2.425
					SD	-	0.004	0.042	1.599
					n	0	3	4	9
									4.932

Continued

**Table 6-19A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0207	pm	0031	L1		BDL	BDL	BDL	1.476	17.764
R1999-0209	pm	0101	L1		BDL	BDL	0.227	3.159	15.659
R1999-0210	pm	0112	L1		BDL	BDL	1.800	1.028	13.873
R1999-0213	pm	0122	L1		BDL	BDL	BDL	2.649	19.385
R1999-0214	pm	0123	L1		BDL	BDL	BDL	6.693	18.687
R1999-0216	pm	0130	L1		BDL	BDL	BDL	7.987	20.498
R1999-0217	pm	0131	L1		BDL	BDL	BDL	0.938	10.990
R1999-0222	pm	0140	L1		BDL	BDL	BDL	2.181	8.946
			L1	8	Mean	-	-	1.013	3.264
					SD	-	-	1.112	2.652
					n	0	0	2	8
									8
R1999-0242	pm	0012	L2		BDL	BDL	BDL	1.900	17.589
R1999-0247	pm	0031	L2		BDL	BDL	BDL	2.997	21.458
R1999-0250	pm	0034	L2		BDL	BDL	0.171	1.784	15.920
R1999-0253	pm	0054	L2		BDL	BDL	BDL	1.028	11.473
R1999-0257	pm	0121	L2		BDL	BDL	BDL	4.907	14.406
R1999-0261	pm	0134	L2		BDL	BDL	0.260	1.325	11.325
			L2	6	Mean	-	-	0.215	2.323
					SD	-	-	0.063	1.433
					n	0	0	2	6
									6
R1999-0279	pm	0014	M1		BDL	0.0705	0.349	1.581	15.356
R1999-0281	pm	0021	M1		BDL	BDL	0.214	1.918	17.915
R1999-0283	pm	0025	M1		BDL	BDL	0.322	3.374	25.988
R1999-0285	pm	0044	M1		BDL	0.0465	0.327	2.064	24.461
R1999-0286	pm	0053	M1		BDL	BDL	BDL	1.659	19.795
R1999-0295	pm	0151	M1		BDL	BDL	BDL	10.135	20.511
R1999-0296	pm	0155	M1		BDL	BDL	BDL	38.942	39.637
R1999-0300	pm	0221	M1		BDL	BDL	BDL	0.678	7.385
R1999-0302	pm	0232	M1		BDL	BDL	0.375	10.100	49.002
R1999-0303	pm	0235	M1		BDL	BDL	BDL	0.865	6.974
R1999-0304	pm	0242	M1		BDL	BDL	BDL	1.224	11.280
			M1	11	Mean	-	0.059	0.317	6.595
					SD	-	0.017	0.062	11.270
					n	0	2	5	11
									11

Continued

**Table 6-19A.** Continued

Sample ID	Species	FieldID	Site	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0313	pm	0034	M2		BDL	BDL	BDL	1.628	13.859
R1999-0314	pm	0041	M2		BDL	BDL	0.544	4.155	26.244
R1999-0315	pm	0042	M2		BDL	BDL	BDL	9.711	44.362
R1999-0317	pm	0051	M2		BDL	0.0754	0.252	2.795	18.937
R1999-0321	pm	0055	M2		BDL	0.5595	BDL	2.942	14.156
R1999-0323	pm	0102	M2		BDL	BDL	BDL	2.077	25.742
R1999-0326	pm	0110	M2		BDL	BDL	BDL	0.862	12.172
R1999-0330	pm	0114	M2		BDL	BDL	BDL	2.001	7.753
			M2	8	Mean	-	0.317	0.398	3.271
					SD	-	0.342	0.206	2.781
					n	0	2	2	8
									11.640
									8
R1999-0339	pm	0022	oparts	1	BDL	BDL	BDL	7.037	8.526
R1999-0344	pm	0012	smarco		BDL	BDL	0.866	2.296	20.534
R1999-0348	pm	0032	smarco		BDL	0.203	0.719	6.944	22.136
R1999-0352	pm	0101	smarco		BDL	0.0775	0.363	2.659	21.077
R1999-0353	pm	0105	smarco		BDL	BDL	BDL	11.602	17.315
R1999-0361	pm	01525	smarco		BDL	BDL	0.573	2.489	16.228
			smarco	5	Mean	-	0.140	0.630	5.198
					SD	-	0.089	0.215	4.070
					n	0	2	4	5
									2.548
									5
R1999-0364	pm	0014	smarts		BDL	BDL	BDL	7.805	17.897
R1999-0370	pm	0024	smarts		BDL	BDL	BDL	21.189	22.169
R1999-0372	pm	0043	smarts		BDL	BDL	1.031	12.915	30.926
R1999-0375	pm	0104	smarts		BDL	BDL	BDL	1.900	20.618
R1999-0376	pm	0121	smarts		BDL	BDL	0.514	2.998	23.371
R1999-0382	pm	0143	smarts		BDL	BDL	BDL	4.208	25.524
			smarts	6	Mean	-	-	0.772	8.502
					SD	-	-	0.366	7.393
					n	0	0	2	6
									4.487
									6

**Table 6-20A.** Fetus metal and As concentration. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species	FieldID	Site	Fetus N	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Meadow Vole</u>										
R1999-0035	mp	0042	H2			BDL	BDL	BDL	1.666	21.494
R1999-0037	mp	0051	H2			BDL	BDL	BDL	1.243	9.454
			H2	2	Mean	-	-	-	1.455	15.474
					SD	-	-	-	0.299	8.513
					n	0	0	0	2	2
R1999-0045	mp	0110	L2	1	1	BDL	BDL	BDL	1.429	13.923
R1999-0048	mp	003201	M1			BDL	BDL	0.438	4.540	17.269
R1999-0050	mp	003203	M1			BDL	BDL	0.462	5.027	17.716
R1999-0051	mp	003204	M1			BDL	BDL	0.523	4.000	20.481
R1999-0049	mp	003202	M1			0.316	BDL	0.415	3.943	20.804
		0032	M1	4	Mean	0.316	-	0.460	4.378	19.068
					SD	-	-	0.047	0.510	1.832
					n	1	0	4	4	4
R1999-0046	mp	0032 0012	M1 M1	4 1	Mean	0.316	-	0.460	4.378	19.068
					SD	BDL	BDL	BDL	4.618	31.306
			M1	2	Mean	0.316	-	0.460	4.498	25.187
					SD	-	-	-	0.170	8.654
					n	1	0	1	2	2
R1999-0052	mp	0032	M2		1	BDL	BDL	0.650	1.004	9.477

Continued

**Table 6-20A.** Continued

Sample ID	Species	FieldID	Site	Fetus N	Site N					
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0062	mp	001101	smarco			BDL	BDL	0.273	1.017	14.087
R1999-0063	mp	001102	smarco			BDL	BDL	0.307	1.263	13.997
R1999-0064	mp	001103	smarco			BDL	BDL	0.305	1.164	15.541
R1999-0065	mp	001104	smarco			BDL	BDL	0.201	1.196	14.502
R1999-0066	mp	001105	smarco			BDL	BDL	0.190	1.248	16.693
R1999-0067	mp	001106	smarco			BDL	BDL	0.218	1.200	14.899
R1999-0068	mp	001107	smarco			BDL	BDL	0.204	1.082	12.721
						Mean	-	-	0.243	1.167
						SD	-	-	0.051	0.089
						n	0	0	7	7
										14.634
R1999-0070	mp	003501	smarco			BDL	BDL	BDL	1.636	15.634
R1999-0071	mp	003502	smarco			BDL	BDL	BDL	1.628	16.130
R1999-0072	mp	003503	smarco			BDL	BDL	BDL	1.369	15.532
R1999-0073	mp	003504	smarco			BDL	BDL	0.260	1.501	14.001
						Mean	-	-	0.260	1.533
						SD	-	-	0.126	0.920
						n	0	0	1	4
										4
R1999-0078	mp	010301	smarco			BDL	BDL	0.337	2.658	18.880
R1999-0079	mp	010302	smarco			BDL	BDL	0.304	2.908	15.579
R1999-0080	mp	010303	smarco			BDL	BDL	0.292	2.433	14.320
R1999-0081	mp	010304	smarco			BDL	BDL	0.304	2.280	16.414
						Mean	-	-	0.309	2.570
						SD	-	-	0.019	0.274
						n	0	0	4	4
										16.298
R1999-0083	mp	010501	smarco			BDL	BDL	0.807	1.657	25.486
R1999-0085	mp	010503	smarco			BDL	BDL	0.723	1.492	21.736
R1999-0086	mp	010504	smarco			BDL	BDL	0.766	1.370	18.266
R1999-0084	mp	010505	smarco			BDL	BDL	0.725	1.896	21.212
						Mean	-	-	0.755	1.604
						SD	-	-	0.040	0.227
						n	0	0	4	4
										2.964

Continued

**Table 6-20A.** Continued

Sample ID	Species	FieldID	Site	Fetus N	Site N									
						As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g				
R1999-0089	mp	011101	smarco			BDL	BDL	0.317	1.307	14.774				
R1999-0090	mp	011102	smarco			BDL	BDL	0.234	1.522	13.119				
R1999-0091	mp	011103	smarco			BDL	BDL	0.229	1.250	13.550				
R1999-0092	mp	011104	smarco			BDL	BDL	0.233	1.764	14.811				
0111 mean 011						Mean	-	-	0.253	1.461	14.064			
						SD	-	-	0.043	0.234	0.860			
						n	0	0	4	4	4			
<hr/>														
						0011	smarco	7	Mean	-	0.243	1.167	14.634	
						0035	smarco	4	Mean	-	0.260	1.533	15.324	
						0103	smarco	4	Mean	-	0.309	2.570	16.298	
						0105	smarco	4	Mean	-	0.755	1.604	21.675	
						0111	smarco	4	Mean	-	0.253	1.461	14.064	
						5		Mean	-	0.364	1.667	16.399		
								SD	-	0.220	0.531	3.065		
								n	0	0	5	5		
<hr/>														
R1999-0096	mp	003401	smarts			BDL	BDL	BDL	3.171	34.590				
R1999-0097	mp	003402	smarts			BDL	BDL	BDL	3.364	38.411				
R1999-0098	mp	003403	smarts			BDL	BDL	BDL	2.308	22.511				
						0034	smarts	3	Mean	-	-	2.948	31.838	
								SD	-	-	0.563	8.300		
								n	0	0	0	3		
<hr/>														
R1999-0100	mp	004401	smarts			BDL	BDL	0.235	1.577	17.886				
R1999-0101	mp	004402	smarts			BDL	BDL	0.341	1.472	19.323				
R1999-0102	mp	004403	smarts			BDL	BDL	0.265	1.254	17.939				
R1999-0103	mp	004404	smarts			BDL	BDL	0.312	1.589	19.361				
R1999-0104	mp	004405	smarts			BDL	BDL	0.218	1.332	15.996				
						0044	mean 0044	5	Mean	-	-	0.274	1.445	18.101
								SD	-	-	0.052	0.148	1.377	
								n	0	0	5	5	5	

Continued

**Table 6-20A.** Continued

Sample ID	Species	FieldID	Site	Fetus N	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0094	mp	0032	smarts			BDL	BDL	BDL	0.523	6.438
				1		Mean -	-	-	0.523	6.438
						SD -	-	-	-	-
						n 0	0	0	1	1
		0034	smarts	3		Mean -	-	BDL	2.948	31.838
		0044	smarts	5		Mean -	-	0.274	1.445	18.101
		0032	smarts	1		BDL	BDL	BDL	0.523	6.438
					3	Mean -	-	0.274	1.638	18.792
						SD -	-	-	1.224	12.714
						n 0	0	1	3	3
<b>Deer Mouse</b>										
R1999-0138	pm	001501	H1			BDL	BDL	BDL	2.203	16.660
R1999-0139	pm	001502	H1			BDL	BDL	BDL	0.999	15.415
R1999-0140	pm	001503	H1			BDL	BDL	0.448	1.646	20.757
R1999-0141	pm	001504	H1			BDL	BDL	0.637	3.121	20.105
R1999-0142	pm	001505	H1			BDL	BDL	0.495	1.356	13.859
		0015	H1	5		Mean -	-	0.527	1.865	17.359
						SD -	-	0.098	0.829	2.983
						n 0	0	3	5	5
R1999-0153	pm	0015	H1	5		Mean -	-	0.527	1.865	17.359
		0110	H1	1		BDL	BDL	BDL	0.610	11.548
			H1		2	Mean -	-	0.527	1.238	14.454
						SD -	-	-	0.887	4.109
						n 0	0	1	2	2
R1999-0207	pm	0031	L1			BDL	BDL	BDL	1.689	21.790
R1999-0216	pm	0130	L1			BDL	BDL	0.648	0.713	10.815
R1999-0214	pm	0123	L1			BDL	BDL	2.266	0.766	11.713
			L1	3		Mean -	-	1.457	1.056	14.773
						SD -	-	1.144	0.549	6.094
						n 0	0	2	3	3

Continued

**Table 6-20A.** Continued

Sample ID	Species	FieldID	Site	Fetus N	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0285	pm	0044	M1			BDL	BDL	BDL	1.015	9.890
R1999-0295	pm	0151	M1			BDL	BDL	BDL	0.681	11.487
R1999-0296	pm	0155	M1			BDL	BDL	0.115	1.483	12.688
			M1	3		Mean	-	-	0.115	1.060
						SD	-	-	0.403	1.404
						n	0	0	1	3
R1999-0348	pm	0032	smarco	1		BDL	BDL	BDL	1.126	10.273
				1		Mean	-	-	1.126	10.273
						SD	-	-	-	-
						n	0	0	1	1
R1999-0365	pm	001401	smarts			BDL	BDL	0.196	1.182	13.694
R1999-0366	pm	001402	smarts			BDL	BDL	0.385	1.398	18.054
R1999-0367	pm	001403	smarts			BDL	BDL	0.341	1.155	16.897
R1999-0368	pm	001404	smarts			BDL	BDL	0.354	1.377	15.071
R1999-0369	pm	001405	smarts			BDL	BDL	0.185	0.995	16.722
		0014	smarts	5		Mean	-	-	0.292	1.221
						SD	-	-	0.094	0.168
						n	0	0	5	5
										16.088
R1999-0370	pm	0014	smarts	5		Mean	-	-	0.292	1.221
		0024	smarts	f		SD	-	-	0.292	1.221
R1999-0372	pm	0043	smarts	f		n	0	0	5	5
R1999-0376	pm	0121	smarts	f						16.088
										12.197
										19.417
										10.173
			smarts	4		Mean	-	-	0.248	0.957
						SD	-	-	0.062	0.181
						n	0	0	2	4
										4.112
										14.469
R1999-0394	Vv	01 L-r	road	f		BDL	0.960	0.868	3.540	15.241
R1999-0395	Vv	01 k-r	road	f		BDL	BDL	1.141	36.251	37.106
R1999-0396	Vv	01-sc-r	road	f		BDL	BDL	BDL	BDL	BDL
				3		Mean	-	0.960	1.004	19.896
						SD	-	-	0.193	23.130
						n	0	1	2	2
										15.461
										26.173
										2

**Table 6-21A.** Carcass metal and As concentration. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Gopher</u>									
R1999-0001	gopher	01	high		8.643	0.337	6.148	12.325	47.576
R1999-0002	gopher	02	high		5.361	0.221	5.206	6.897	52.894
R1999-0003	gopher	03	high		6.898	0.214	2.855	10.931	41.681
R1999-0006	gopher	06	high		5.455	0.115	1.367	7.636	45.704
R1999-0004	gopher	04	high		18.805	0.530	4.767	30.521	74.626
R1999-0005	gopher	05	high		37.411	0.726	2.734	46.258	160.611
			high	6	Mean 13.762	0.357	3.846	19.095	70.515
					SD 12.630	0.230	1.809	15.880	45.646
					n 6	6	6	6	6
R1999-0007	gopher	01	low		1.327	0.018	0.267	3.032	37.589
R1999-0009	gopher	03	low		1.811	0.011	0.497	3.785	47.891
R1999-0008	gopher	02	low		1.627	0.033	0.568	5.420	37.753
R1999-0010	gopher	04	low		0.457	0.012	0.382	1.722	36.760
R1999-0011	gopher	05	low		1.030	0.019	0.404	3.283	32.026
R1999-0012	gopher	06	low		0.809	0.017	0.566	2.741	26.920
			low	6	Mean 1.177	0.018	0.447	3.331	36.490
					SD 0.510	0.008	0.118	1.233	6.991
					n 6	6	6	6	6
R1999-0013	gopher	01	medium		2.858	0.099	1.138	4.867	40.341
R1999-0016	gopher	04	medium		1.876	0.168	1.504	3.605	42.172
R1999-0018	gopher	06	medium		5.497	0.228	0.725	7.580	44.207
R1999-0019	gopher	07	medium		4.852	0.566	0.708	8.431	42.884
R1999-0014	gopher	02	medium		2.988	0.056	1.015	4.086	52.524
R1999-0017	gopher	05	medium		1.627	0.322	0.553	6.595	40.787
			medium	6	Mean 3.283	0.240	0.940	5.861	43.819
					SD 1.572	0.185	0.350	1.966	4.490
					n 6	6	6	6	6

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Meadow Vole</u>									
R1999-0021	mp	0021	anarts		0.730	0.056	0.731	10.703	31.665
R1999-0022	mp	0022	anarts		0.724	0.063	0.800	9.006	30.955
R1999-0024	mp	0043	anarts		1.160	0.078	1.164	17.365	27.887
R1999-0025	mp	0045	anarts		1.377	0.108	1.529	30.278	55.041
R1999-0026	mp	0055	anarts		1.092	0.101	1.417	18.343	42.260
R1999-0027	mp	1001	anarts		0.498	0.060	0.744	9.575	23.691
R1999-0023	mp	0031	anarts		0.758	0.066	0.905	9.738	22.700
R1999-0028	mp	1002	anarts		1.545	0.099	1.386	13.617	30.249
			anarts	8	Mean 0.985	0.079	1.084	14.828	33.056
					SD 0.365	0.021	0.329	7.205	10.717
					n 8	8	8	8	8
R1999-0029	mp	0021	H1		1.310	0.121	2.434	3.711	130.608
R1999-0030	mp	0022	H1		1.694	0.147	1.828	4.050	BDL
			H1	2	Mean 1.502	0.134	2.131	3.881	130.608
					SD 0.272	0.019	0.428	0.240	#DIV/0!
					n 2	2	2	2	1
R1999-0035	mp	0042	H2		1.130	0.138	1.459	3.705	30.515
R1999-0036	mp	0044	H2		1.814	0.114	3.010	7.461	39.714
R1999-0037	mp	0051	H2		1.045	0.115	2.177	3.348	34.791
R1999-0039	mp	0055	H2		1.125	0.084	0.815	4.354	118.902
R1999-0032	mp	0024	H2		1.185	0.160	2.344	5.983	38.420
R1999-0033	mp	0025	H2		0.592	0.074	0.918	2.713	22.675
R1999-0034	mp	0041	H2		1.857	0.105	1.464	5.098	29.915
R1999-0038	mp	0053	H2		0.989	0.164	1.499	6.845	31.431
R1999-0040	mp	0102	H2		0.691	0.103	1.048	4.840	18.369
R1999-0042	mp	0120	H2		1.713	0.119	1.939	9.070	26.155
			H2	10	Mean 1.214	0.118	1.667	5.342	39.089
					SD 0.444	0.029	0.698	1.998	28.813
					n 10	10	10	10	10

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As ug/g		Cd ug/g		Pb ug/g		Cu ug/g		Zn ug/g	
					Mean	SD	n	Mean	SD	n	Mean	SD	Mean	SD
R1999-0045	mp	0110	L2		0.646	0.059		0.781	0.176	4.260	2.763	32.683		
R1999-0043	mp	00313	L2		0.357	0.014		0.431	0.023	1.832	1.309	26.945		
R1999-0044	mp	0041	L2		0.173	0.027		0.581	0.176	2.197	1.309	25.501		
			L2	3	Mean	0.392		0.034	0.598		2.763	28.376		
					SD	0.239		0.023	0.176		1.309	3.799		
					n	3		3	3		3	3		
R1999-0046	mp	0012	M1			14.242		0.228	0.402		9.353	49.010		
R1999-0047	mp	0032	M1			3.808		0.372	1.629		9.752	36.022		
			M1	2	Mean	9.025		0.300	1.015		9.553	42.516		
					SD	7.378		0.102	0.868		0.282	9.184		
					n	2		2	2		2	2		
R1999-0052	mp	0032	M2			1.885		0.263	2.097		4.950	37.007		
R1999-0055	mp	0041	M2			6.250		0.214	3.924		13.376	30.301		
R1999-0054	mp	0035	M2			1.877		0.205	2.611		8.175	45.799		
R1999-0056	mp	0051	M2			1.205		0.106	1.311		3.953	26.803		
			M2	4	Mean	2.804		0.197	2.486		7.614	34.977		
					SD	2.319		0.066	1.098		4.243	8.365		
					n	4		4	4		4	4		
R1999-0059	mp	0031	oparts			0.289		0.034	1.082		4.186	46.718		
R1999-0057	mp	0023	oparts			1.051		0.033	1.027		3.899	24.979		
R1999-0058	mp	0024	oparts			0.507		0.026	1.067		4.889	95.957		
R1999-0060	mp	4425	oparts			0.824		0.119	1.478		5.365	29.069		
			oparts	4	Mean	0.668		0.053	1.164		4.585	49.181		
					SD	0.337		0.044	0.211		0.666	32.580		
					n	4		4	4		4	4		

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0061	mp	0011	smarco		1.093	BDL	0.638	1.580	25.686
R1999-0069	mp	0035	smarco		3.796	0.053	1.283	4.033	35.708
R1999-0077	mp	0103	smarco		3.780	0.075	1.324	4.239	32.161
R1999-0082	mp	0105	smarco		3.965	0.041	0.783	3.469	BDL
R1999-0088	mp	0111	smarco		1.115	0.027	0.820	2.346	25.629
R1999-0074	mp	0043	smarco		1.005	0.025	0.643	3.195	27.934
R1999-0075	mp	0052	smarco		0.652	0.019	0.518	2.451	27.509
R1999-0076	mp	0055	smarco		3.371	0.040	1.189	3.926	35.643
R1999-0087	mp	0106	smarco		1.693	0.032	0.944	3.915	78.520
				smarco	9	Mean	2.274	0.039	0.905
						SD	1.413	0.018	0.298
						n	9	8	9
								9	8
R1999-0094	mp	0032	smarts		5.108	0.144	1.330	3.492	29.839
R1999-0095	mp	0034	smarts		4.240	0.173	1.369	3.108	27.589
R1999-0099	mp	0044	smarts		0.918	0.083	0.656	2.285	55.573
R1999-0106	mp	0113	smarts		2.098	0.063	0.666	2.979	144.652
R1999-0108	mp	0120	smarts		12.139	0.309	2.026	6.547	33.738
R1999-0105	mp	0055	smarts		0.992	0.080	0.826	4.980	31.098
R1999-0109	mp	0123	smarts		1.240	0.053	0.584	3.448	124.116
R1999-0110	mp	0131	smarts		0.961	0.032	0.708	3.069	23.831
R1999-0111	mp	0133	smarts		0.780	0.019	0.424	2.364	21.216
R1999-0113	mp	0135	smarts		2.848	0.069	0.848	2.187	67.492
				smarts	10	Mean	3.132	0.103	0.944
						SD	3.507	0.086	0.488
						n	10	10	10
								10	10

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
<u>Deer Mouse</u>										
R1999-0119	pm	0023	anarts		0.326	0.050	0.817	11.322	30.798	
R1999-0121	pm	0041	anarts		0.357	0.050	0.896	11.720	46.465	
R1999-0123	pm	0101	anarts		0.573	0.049	0.999	9.315	31.416	
R1999-0129	pm	0114	anarts		0.482	0.036	1.063	5.926	32.019	
R1999-0130	pm	0115	anarts		BDL	0.035	0.773	6.161	25.132	
R1999-0132	pm	0122	anarts		BDL	0.026	0.529	5.723	27.533	
R1999-0120	pm	0035	anarts		0.491	0.042	0.872	6.471	31.962	
R1999-0122	pm	0045	anarts		0.433	0.716	1.518	7.161	26.069	
R1999-0124	pm	0104	anarts		BDL	0.047	1.066	6.245	33.169	
R1999-0126	pm	0110	anarts		BDL	BDL	0.592	4.343	23.817	
R1999-0127	pm	0112	anarts		1.101	2.140	3.706	11.081	34.941	
R1999-0128	pm	0113	anarts		0.475	0.032	0.769	7.296	27.756	
R1999-0131	pm	0120	anarts		0.329	0.043	0.729	8.207	23.279	
R1999-0133	pm	0123	anarts		0.684	0.157	1.296	5.927	32.031	
			anarts	14	Mean	0.525	0.263	1.116	7.636	30.456
					SD	0.231	0.594	0.791	2.344	5.890
					n	10	13	14	14	14
R1999-0136	pm	0013	H1		0.499	0.065	2.495	2.575	47.257	
R1999-0137	pm	0015	H1		0.965	0.771	3.103	3.145	71.769	
R1999-0148	pm	0043	H1		0.859	0.028	2.004	2.672	30.212	
R1999-0151	pm	0055	H1		0.602	0.047	1.834	2.788	47.716	
R1999-0153	pm	0110	H1		0.591	0.072	1.888	3.033	62.793	
R1999-0154	pm	0111	H1		1.041	0.061	1.713	2.537	33.288	
R1999-0156	pm	0114	H1		0.667	0.019	1.902	1.966	30.397	
R1999-0158	pm	0131	H1		0.899	0.058	2.250	3.768	32.958	
R1999-0160	pm	0135	H1		0.822	0.054	2.334	3.347	25.456	
R1999-0161	pm	0140	H1		0.630	0.033	2.214	2.874	32.232	
R1999-0163	pm	0142	H1		0.978	0.046	2.111	2.834	36.263	
R1999-0166	pm	0145	H1		0.412	BDL	1.567	2.282	33.839	
R1999-0168	pm	0201	H1		0.642	0.021	1.918	2.558	23.623	
R1999-0143	pm	0021	H1		0.834	0.027	2.461	2.601	65.532	
R1999-0146	pm	0035	H1		1.110	0.053	3.253	2.917	32.848	
R1999-0147	pm	0042	H1		0.732	0.048	1.304	2.899	30.258	

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0150	pm	0054	H1		0.949	0.054	1.218	2.363	33.990	
R1999-0152	pm	0104	H1		0.642	0.027	2.140	2.457	30.591	
R1999-0155	pm	0112	H1		0.613	0.033	1.110	2.282	31.702	
R1999-0159	pm	0132	H1		0.713	0.041	1.631	2.803	36.493	
R1999-0164	pm	0143	H1		0.408	0.040	1.390	2.605	32.459	
			H1	21	Mean	0.743	0.080	1.992	2.729	38.175
					SD	0.200	0.163	0.557	0.397	13.241
					n	21	20	21	21	21
R1999-0170	pm	0022	H2		2.566	0.113	2.598	5.915	27.733	
R1999-0174	pm	0035	H2		0.626	0.044	1.672	2.616	28.266	
R1999-0175	pm	0041	H2		0.591	0.060	1.817	3.946	27.656	
R1999-0183	pm	0114	H2		BDL	BDL	0.767	2.266	25.875	
R1999-0184	pm	0115	H2		0.355	0.027	1.412	2.771	28.119	
R1999-0185	pm	0121	H2		0.643	0.095	1.116	2.860	25.704	
R1999-0187	pm	0125	H2		0.734	0.065	2.454	3.757	25.130	
R1999-0189	pm	0132	H2		BDL	0.574	0.831	2.512	25.649	
R1999-0192	pm	0135	H2		0.560	0.106	1.032	2.665	30.970	
R1999-0172	pm	0031	H2		0.619	0.045	1.271	3.096	30.002	
R1999-0173	pm	0034	H2		1.309	0.057	1.354	4.133	28.108	
R1999-0176	pm	0042	H2		0.724	0.045	1.511	3.533	22.796	
R1999-0180	pm	0053	H2		0.695	0.056	1.860	3.096	27.751	
R1999-0188	pm	0130	H2		0.699	0.067	1.454	4.950	30.595	
R1999-0190	pm	0133	H2		BDL	0.054	1.455	2.906	22.404	
R1999-0191	pm	0134	H2		0.372	0.028	1.605	2.841	21.657	
R1999-0193	pm	0140	H2		0.611	0.028	1.828	3.605	32.045	
R1999-0194	pm	0141	H2		0.551	0.029	1.425	2.693	28.974	
R1999-0195	pm	0142	H2		0.587	0.031	0.744	2.684	25.311	
R1999-0196	pm	1121	H2		0.594	0.033	1.749	2.786	26.586	
			H2	20	Mean	0.755	0.082	1.498	3.282	27.067
					SD	0.508	0.122	0.490	0.904	2.821
					n	17	19	20	20	20
R1999-0207	pm	0031	L1		0.322	BDL	0.588	2.259	35.579	
R1999-0209	pm	0101	L1		BDL	BDL	0.319	2.149	22.830	
R1999-0210	pm	0112	L1		BDL	BDL	0.651	2.094	47.405	
R1999-0213	pm	0122	L1		0.499	0.040	0.700	5.113	26.367	
R1999-0214	pm	0123	L1		BDL	0.030	0.442	2.498	24.576	
R1999-0216	pm	0130	L1		0.519	0.337	0.759	3.110	28.481	
R1999-0217	pm	0131	L1		BDL	BDL	0.376	2.054	21.715	

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0218	pm	0132	L1		BDL	BDL	0.701	3.253	29.535	
R1999-0221	pm	0135	L1		BDL	BDL	0.664	2.534	24.726	
R1999-0222	pm	0140	L1		BDL	BDL	0.467	2.701	27.704	
R1999-0225	pm	0404	L1		0.374	BDL	0.837	2.842	35.667	
R1999-0203	pm	0012	L1		0.403	BDL	0.502	2.411	61.333	
R1999-0205	pm	0023	L1		0.233	0.019	0.503	2.275	21.119	
R1999-0206	pm	0024	L1		BDL	BDL	0.498	2.176	32.134	
R1999-0208	pm	0042	L1		BDL	BDL	0.343	2.067	33.126	
R1999-0215	pm	0124	L1		BDL	BDL	0.952	3.782	27.933	
R1999-0219	pm	0133	L1		BDL	BDL	0.524	2.264	28.351	
R1999-0220	pm	0134	L1		BDL	0.575	0.306	1.592	18.061	
R1999-0223	pm	0141	L1		0.313	BDL	0.447	2.006	27.802	
R1999-0224	pm	0142	L1		BDL	0.060	0.582	3.002	25.632	
			L1	20	Mean	0.381	0.177	0.558	2.609	30.004
					SD	0.103	0.229	0.175	0.781	9.768
					n	7	6	20	20	20
R1999-0242	pm	0012	L2		BDL	0.112	0.916	2.185	29.724	
R1999-0247	pm	0031	L2		BDL	BDL	0.346	2.179	26.665	
R1999-0249	pm	0033	L2		BDL	BDL	0.397	1.895	23.747	
R1999-0250	pm	0034	L2		BDL	0.022	0.567	2.428	47.263	
R1999-0253	pm	0054	L2		BDL	BDL	0.529	2.169	23.279	
R1999-0254	pm	0055	L2		BDL	BDL	0.598	2.471	31.278	
R1999-0257	pm	0121	L2		BDL	0.025	0.563	2.211	22.641	
R1999-0261	pm	0134	L2		0.304	0.019	0.511	2.271	26.547	
R1999-0263	pm	0140	L2		BDL	BDL	0.712	2.393	26.422	
R1999-0264	pm	0141	L2		BDL	0.891	0.775	2.284	29.258	
R1999-0241	pm	0011	L2		0.272	0.094	0.680	2.248	23.459	
R1999-0243	pm	0013	L2		BDL	0.026	1.403	2.040	27.019	
R1999-0244	pm	0022	L2		BDL	0.018	0.448	1.739	24.557	
R1999-0245	pm	0023	L2		BDL	BDL	0.644	2.734	26.433	
R1999-0248	pm	0032	L2		BDL	0.119	0.513	2.205	33.163	
R1999-0256	pm	0112	L2		BDL	0.065	0.600	2.170	27.450	
R1999-0260	pm	0133	L2		BDL	0.030	0.607	2.799	30.460	
R1999-0265	pm	0142	L2		BDL	0.152	0.534	2.348	28.557	
R1999-0267	pm	0144	L2		0.447	0.031	0.909	4.874	28.185	
R1999-0268	pm	0145	L2		BDL	0.658	2.992	2.992	28.363	
			L2	20	Mean	0.341	0.123	0.645	2.432	28.224
					SD	0.093	0.235	0.230	0.644	5.283
					n	3	13	20	20	20

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
R1999-0279	pm	0014	M1		1.952	0.126	2.952	6.690	26.869
R1999-0281	pm	0021	M1		0.626	0.044	1.038	3.061	25.064
R1999-0283	pm	0025	M1		1.028	0.056	1.755	3.608	27.802
R1999-0285	pm	0044	M1		1.771	0.101	2.686	7.137	129.141
R1999-0286	pm	0053	M1		0.543	0.041	1.590	2.293	24.909
R1999-0295	pm	0151	M1		0.977	0.086	2.256	3.879	29.112
R1999-0296	pm	0155	M1		0.724	0.118	1.871	3.897	25.932
R1999-0300	pm	0221	M1		0.680	0.066	0.879	2.783	22.910
R1999-0302	pm	0232	M1		0.276	0.021	0.635	2.534	22.252
R1999-0303	pm	0235	M1		0.515	0.042	1.578	2.578	27.650
R1999-0304	pm	0242	M1		0.995	0.041	1.477	3.334	26.530
R1999-0305	pm	0243	M1		BDL	0.033	1.136	2.306	21.107
R1999-0278	pm	0013	M1		0.268	0.203	1.801	2.062	24.258
R1999-0280	pm	0015	M1		0.740	0.137	1.702	3.285	20.175
R1999-0282	pm	0024	M1		0.908	0.051	1.669	2.925	27.607
R1999-0288	pm	0111	M1		1.136	0.072	1.832	4.419	25.789
R1999-0289	pm	0114	M1		0.851	0.073	1.622	3.539	25.926
R1999-0290	pm	0125	M1		1.263	0.058	1.462	3.829	25.665
R1999-0297	pm	0213	M1		0.487	0.032	1.047	2.315	21.920
R1999-0299	pm	0220	M1		0.767	0.068	2.214	3.731	26.008
				M1	20	Mean	0.869	0.073	1.660
						SD	0.441	0.045	0.574
				n	19	n	20	20	1.337
							20	20	23.380
								20	20
R1999-0313	pm	0034	M2		BDL	0.134	1.322	2.168	46.980
R1999-0314	pm	0041	M2		0.947	0.053	1.776	3.096	57.584
R1999-0315	pm	0042	M2		1.588	0.348	2.445	5.157	87.628
R1999-0317	pm	0051	M2		0.618	0.115	2.050	3.171	23.274
R1999-0321	pm	0055	M2		1.329	0.289	2.573	5.186	28.076
R1999-0323	pm	0102	M2		0.351	0.046	1.344	2.065	25.286
R1999-0326	pm	0110	M2		0.572	0.176	1.119	4.043	24.401
R1999-0327	pm	0111	M2		BDL	BDL	1.431	2.299	23.644
R1999-0330	pm	0114	M2		0.380	0.031	1.027	3.593	28.397
R1999-0312	pm	0025	M2		0.599	0.034	1.394	3.156	62.234
R1999-0316	pm	0045	M2		0.719	0.034	1.015	2.904	27.040
R1999-0318	pm	0052	M2		BDL	BDL	0.837	2.093	28.235

Continued

**Table 6-21A.** Continued

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn	
					ug/g	ug/g	ug/g	ug/g	ug/g	
R1999-0319	pm	0053	M2		0.513	0.026	2.648	2.517	28.684	
R1999-0320	pm	0054	M2		0.376	0.029	0.794	2.722	29.323	
R1999-0322	pm	0101	M2		0.817	0.047	1.186	4.136	28.212	
R1999-0324	pm	0103	M2		BDL	BDL	0.569	2.477	21.332	
R1999-0325	pm	0105	M2		0.628	0.054	1.112	3.606	25.468	
R1999-0328	pm	0112	M2		1.046	0.073	2.480	6.400	27.344	
R1999-0329	pm	0113	M2		0.540	0.241	1.096	4.195	54.735	
			M2	19	Mean	0.735	0.108	1.485	3.420	35.678
					SD	0.358	0.103	0.649	1.195	17.755
					n	15	16	19	19	19
R1999-0339	pm	0022	oparts	1	BDL	1.182	0.780	2.797	27.063	
R1999-0344	pm	0012	smarco		2.856	0.076	7.967	3.672	25.820	
R1999-0348	pm	0032	smarco		1.244	0.064	13.068	4.241	26.276	
R1999-0352	pm	0101	smarco		2.470	0.102	21.672	4.432	35.823	
R1999-0353	pm	0105	smarco		1.336	0.204	31.955	3.419	25.188	
R1999-0361	pm	01525	smarco		3.726	0.067	8.775	3.180	31.706	
R1999-0346	pm	0015	smarco		0.471	0.193	32.374	3.355	24.848	
R1999-0350	pm	0042	smarco		2.161	0.112	21.191	3.005	27.816	
R1999-0354	pm	0112	smarco		0.472	0.181	16.559	2.304	26.990	
R1999-0355	pm	0125	smarco		2.075	0.041	11.962	2.549	67.386	
R1999-0357	pm	0135	smarco		1.286	0.051	9.054	2.232	24.102	
			smarco	10	Mean	1.810	0.109	17.458	3.239	31.596
					SD	1.043	0.062	9.133	0.751	13.076
					n	10	10	10	10	10
R1999-0364	pm	0014	smarts		1.878	0.126	4.334	3.357	57.255	
R1999-0370	pm	0024	smarts		0.897	0.238	5.386	4.100	28.206	
R1999-0372	pm	0043	smarts		1.756	0.093	5.334	3.197	38.212	
R1999-0375	pm	0104	smarts		3.157	0.106	2.962	7.049	112.796	
R1999-0376	pm	0121	smarts		0.933	0.037	1.404	3.841	26.464	
R1999-0382	pm	0143	smarts		0.973	0.050	3.056	5.224	63.429	
R1999-0371	pm	0034	smarts		0.801	0.041	3.519	2.742	33.686	
R1999-0373	pm	0045	smarts		1.430	0.068	2.209	3.213	26.955	
R1999-0377	pm	0131	smarts		0.766	0.054	4.407	2.233	44.404	
R1999-0380	pm	0135	smarts		1.655	0.056	2.576	2.605	59.185	
R1999-0387	pm	0230	smarts		21.541	0.155	9.349	4.063	74.602	
			smarts	12	Mean	3.253	0.093	4.049	3.784	51.381
					SD	6.106	0.061	2.162	1.365	26.156
					n	11	11	11	11	11

**Table 6-22A.** Carcass metal and As concentration. Anaconda Smelter Site, 1999; Snap Trap Animals. BDL is below detection limit. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species	FieldID	Site	Site N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
<u>Meadow Vole</u>									
R1999-0093	mp	0025	smarts		1.476	0.338	2.282	3.999	30.711
R1999-0112	mp	0134	smarts		2.493	0.214	2.144	4.282	32.670
R1999-0400	mp	0103	smarts		1.256	0.192	3.765	4.477	35.600
				3	Mean	1.742	0.248	2.730	4.253
					SD	0.660	0.078	0.899	0.240
					n	3	3	3	3
R1999-0031	mp	0034	High 1		0.024	0.178	0.274	3.855	36.959
<u>Deer Mouse</u>									
R1999-0135	pm	9902	anarts		0.477	0.189	4.431	62.153	50.730
R1999-0144	pm	0022	High 1		BDL	0.113	0.384	4.674	33.079
R1999-0157	pm	0123	High 1		BDL	0.147	0.339	5.311	35.603
R1999-0167	pm	0150	High 1		BDL	0.077	0.171	3.291	31.777
R1999-0169	pm	9901	High 1		BDL	0.094	BDL	4.598	30.177
				4	Mean #DIV/0!	0.108	0.298	4.468	32.659
					SD #DIV/0!	0.030	0.112	0.848	2.294
					n	0	4	3	4
R1999-0197	pm	9901	High 2		BDL	0.054	0.178	5.432	31.477
R1999-0198	pm	9902	High 2		BDL	0.119	0.209	7.286	35.571
R1999-0199	pm	9903	High 2		BDL	0.100	0.185	3.839	31.774
R1999-0200	pm	9904	High 2		BDL	0.075	0.187	6.191	31.721
R1999-0201	pm	9905	High 2		BDL	0.138	0.146	6.806	36.470
R1999-0202	pm	9906	High 2		BDL	0.075	0.266	7.401	30.903
				6	Mean #DIV/0!	0.093	0.195	6.159	32.986
					SD #DIV/0!	0.031	0.040	1.352	2.388
					n	0	6	6	6

Continued

**Table 6-22A.** Continued

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g		
R1999-0211	pm	0114	Low 1		BDL	0.043	0.049	3.335	33.403		
R1999-0226	pm	9901	Low 1		BDL	0.026	0.028	3.405	31.081		
R1999-0227	pm	9902	Low 1		BDL	BDL	0.039	3.377	30.909		
R1999-0228	pm	9903	Low 1		BDL	BDL	0.042	2.870	27.211		
R1999-0229	pm	9904	Low 1		BDL	BDL	0.116	3.089	32.754		
R1999-0230	pm	9905	Low 1		BDL	0.012	0.068	3.291	33.506		
R1999-0231	pm	9906	Low 1		BDL	0.080	0.144	4.531	35.569		
R1999-0234	pm	9909	Low 1		BDL	0.032	0.032	3.895	35.474		
R1999-0235	pm	9910	Low 1		BDL	0.040	0.033	2.554	25.033		
R1999-0236	pm	9911	Low 1		BDL	0.024	BDL	2.354	26.253		
R1999-0237	pm	9912	Low 1		BDL	0.031	0.148	2.904	31.067		
					11	Mean #DIV/0!	0.036	0.070	3.237	31.114	
					SD #DIV/0!	0.020	0.048	0.607	3.583		
					n	0	8	10	11	11	
R1999-0252	pm	0052	Low 2		BDL	0.031	0.064	2.963	31.146		
R1999-0255	pm	0110	Low 2		BDL	0.008	0.108	2.784	27.323		
R1999-0269	pm	9901	Low 2		BDL	0.039	0.055	3.292	25.844		
R1999-0270	pm	9902	Low 2		BDL	0.031	0.071	3.242	27.538		
R1999-0271	pm	9903	Low 2		BDL	BDL	0.079	3.065	26.370		
R1999-0272	pm	9904	Low 2		BDL	0.265	0.300	4.156	30.653		
R1999-0273	pm	9905	Low 2		BDL	BDL	0.204	2.866	25.846		
R1999-0274	pm	9907	Low 2		BDL	0.019	0.156	3.671	28.202		
R1999-0275	pm	9908	Low 2		BDL	0.045	0.083	3.858	32.693		
R1999-0276	pm	9906	Low 2		BDL	0.021	0.157	3.560	23.762		
					10	Mean #DIV/0!	0.057	0.128	3.346	27.938	
					SD #DIV/0!	0.085	0.078	0.454	2.780		
					n	0	8	10	10	10	
R1999-0292	pm	0130	Medium 1		0.026	0.207	0.325	10.859	28.212		
R1999-0294	pm	0144	Medium 1		BDL	0.107	0.088	5.184	29.676		
R1999-0301	pm	0222	Medium 1		0.029	0.233	0.452	13.330	32.688		
R1999-0306	pm	9901	Medium 1		BDL	0.329	0.320	7.767	29.942		
R1999-0307	pm	9902	Medium 1		BDL	0.064	0.157	4.099	23.246		
R1999-0308	pm	9903	Medium 1		BDL	0.060	0.228	4.830	26.975		
R1999-0309	pm	9904	Medium 1		BDL	0.123	0.206	5.497	27.940		
R1999-0310	pm	9905	Medium 1		BDL	0.105	0.287	6.587	25.882		
R1999-0311	pm	9906	Medium 1		BDL	0.078	0.205	5.385	27.451		
					9	Mean	0.028	0.145	0.252	7.060	28.002
					SD	0.002	0.092	0.107	3.102	2.670	
					n	2	9	9	9	9	

**Table 6-22A.** Continued

Sample ID	Species	FieldID	Site	Site N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0331	pm	9901	Medium 2		BDL	0.074	0.332	6.572	27.094
R1999-0334	pm	9904	Medium 2		BDL	0.124	0.147	5.712	30.515
R1999-0335	pm	9905	Medium 2		BDL	0.296	0.304	7.400	29.078
R1999-0336	pm	9906	Medium 2		BDL	0.107	0.190	4.973	26.177
				4	Mean #DIV/0!	0.150	0.243	6.164	28.216
					SD #DIV/0!	0.099	0.089	1.052	1.953
				n 0		4	4	4	4
R1999-0341	pm	9902	oparts		BDL	0.072	0.256	4.725	35.294
R1999-0342	pm	9903	oparts		BDL	0.030	2.893	4.511	30.180
R1999-0343	pm	9904	oparts		0.034	BDL	0.553	4.081	26.256
				3	Mean 0.034	0.051	1.234	4.439	30.577
					SD #DIV/0!	0.030	1.444	0.328	4.532
				n 1		2	3	3	3
R1999-0345	pm	0013	smarco		0.073	0.374	38.076	4.489	34.466
R1999-0358	pm	0150	smarco		3.481	0.071	7.138	6.273	34.330
				2	Mean 1.777	0.223	22.607	5.381	34.398
					SD 2.410	0.214	21.877	1.262	0.096
				n 2		2	2	2	2
R1999-0386	pm	0225	smarts		0.291	0.077	5.191	4.005	34.971
R1999-0391	pm	9901	smarts		0.309	0.054	5.536	14.002	35.855
				2	Mean 0.300	0.065	5.363	9.004	35.413
					SD 0.013	0.016	0.244	7.069	0.625
				n 2		2	2	2	2

**Table 6-23A.** Metal and As concentration of Opportunistic Collections. Anaconda Smelter Site, 1999. BDL is below detection limit.

Sample ID	Species	FieldID	Site	Tissue	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Gopher</u>									
R1999-0404	gopher	02	M2	kidney	BDL	2.329	2.514	5.163	28.048
R1999-0405	gopher	01	M2	kidney	BDL	1.229	4.166	4.598	24.246
R1999-0406	gopher	03	M2	kidney	2.465	16.501	2.318	6.228	30.435
R1999-0407	gopher	01	oparts	kidney	BDL	2.260	4.275	22.801	
R1999-0404	gopher	02	M2	liver	BDL	0.714	1.576	5.140	28.283
R1999-0405	gopher	01	M2	liver	1.066	0.349	2.645	5.340	25.964
R1999-0406	gopher	03	M2	liver	6.053	3.882	1.500	10.095	47.041
R1999-0407	gopher	01	oparts	liver	BDL	0.046	1.079	7.245	25.300
<u>Shrew sp.</u>									
R1999-0408	shrew	02	H2	carcass	BDL	0.345	5.521	5.795	30.868
R1999-0409	shrew	01	H2	carcass	1.108	0.288	0.596	4.584	33.458
R1999-0410	shrew	03	H2	carcass	1.424	0.480	7.629	8.706	39.522
R1999-0411	shrew	04	H2	carcass	7.256	0.470	1.539	20.991	42.133
R1999-0412	shrew	01	L2	carcass	BDL	0.055	0.617	2.744	25.492
R1999-0413	shrew	02	MC-H	carcass	0.545	0.236	1.009	4.039	29.436
R1999-0414	shrew	01	smarco	carcass	2.381	0.100	1.161	4.892	73.536
R1999-0411	shrew	04	H2	kidney	BDL	3.412	11.014	24.595	66.655
R1999-0409	shrew	01	H2	kidney	BDL	10.931	8.322	11.494	39.030
R1999-0408	shrew	02	H2	kidney	BDL	2.925	BDL	13.522	59.560
R1999-0410	shrew	03	H2	kidney	BDL	2.208	BDL	8.685	41.911
R1999-0412	shrew	01	L2	kidney	BDL	BDL	BDL	6.810	62.668
R1999-0415	shrew	01	MC-H	kidney	BDL	BDL	2.797	9.469	37.410
R1999-0413	shrew	02	MC-H	kidney	BDL	1.925	BDL	11.194	36.310
R1999-0414	shrew	01	smarco	kidney	BDL	0.937	5.868	7.081	45.484

Continued

**Table 6-23A.** Continued

Sample ID	Species	FieldID	Site	Tissue	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
R1999-0411	shrew	04	H2	liver	BDL	3.475	BDL	18.475	60.717
R1999-0409	shrew	01	H2	liver	BDL	10.183	BDL	26.560	76.147
R1999-0408	shrew	02	H2	liver	BDL	2.888	3.458	10.275	35.010
R1999-0410	shrew	03	H2	liver	BDL	2.454	BDL	7.018	27.271
R1999-0412	shrew	01	L2	liver	BDL	0.682	2.975	7.889	34.013
R1999-0415	shrew	01	MC-H	liver	BDL	0.218	BDL	7.176	32.563
R1999-0413	shrew	02	MC-H	liver	BDL	2.423	BDL	10.459	26.041
R1999-0414	shrew	01	smarco	liver	BDL	0.632	BDL	7.529	32.651
<b><u>Chipmunk (Eutamias sp.)</u></b>									
R1999-0416	tsp	0011	H1	kidney	BDL	5.902	3.901	6.167	43.635
R1999-0417	tsp	01	H1	kidney	BDL	1.007	2.214	4.345	25.212
R1999-0418	tsp	01	H2	kidney	BDL	2.140	2.331	5.379	29.466
R1999-0419	tsp	0014	M1	kidney	BDL	4.923	2.154	4.560	40.495
R1999-0416	tsp	0011	H1	liver	1.694	1.306	1.583	3.823	20.938
R1999-0417	tsp	01	H1	liver	4.699	0.639	1.991	8.322	31.250
R1999-0418	tsp	01	H2	liver	1.886	1.448	1.316	12.010	28.627
R1999-0419	tsp	0014	M1	liver	2.964	2.526	1.969	9.966	32.206
<b><u>Red Fox</u></b>									
R1999-0420	Fox	01	road	blood	BDL	0.050	0.261	6.888	11.319
R1999-0420	Fox	01	road	kidney	BDL	1.195	1.575	4.746	19.512
R1999-0420	Fox	01	road	liver	BDL	0.199	1.277	37.197	37.398
<b><u>Deer Mouse</u></b>									
R1999-0421	pm	NB01	M1	kidney	BDL	1.986	BDL	6.251	32.232
R1999-0421	pm	NB01	M1	liver	BDL	0.280	0.522	4.552	20.596
R1999-0421	pm	NB01	M1	carcass	1.002	0.183	0.891	5.543	27.383

**Table 6-24A.** Blood ALAD Activity. Anaconda Smelter Site, 2000.

SampleID	Site	Species	Sex/ N	ALAD Activity		
				(nmol ALA/ min*ml RBC)		
R2000-0001	D-Strip	MP	F			45.81
R2000-0002	D-Strip	MP	M			10.99
				2	Mean	28.40
					SD	24.62
					n	2
R2000-0010	H1	MP	M			5.9
R2000-0023	H2	MP	M			14.97
R2000-0024	H2	MP	F			6.91
				2	Mean	10.94
					SD	5.70
					n	2
R2000-0109	Smarco	MP	M			2.41
R2000-0110	Smarco	MP	M			1.89
R2000-0111	Smarco	MP	F			12.06
R2000-0112	Smarco	MP	M			8.23
R2000-0113	Smarco	MP	M			3.34
R2000-0123	Smarco	MP	F			3.46
				6	Mean	5.23
					SD	4.04
					n	6

Continued

**Table 7-24A.** Continued

SampleID	Site	Species	Sex/ N	ALAD Activity		
				(nmol ALA/ min*ml RBC)		
R2000-0124	Smarts	MP	F			1.21
R2000-0125	Smarts	MP	M			9.88
R2000-0126	Smarts	MP	M			3.85
R2000-0127	Smarts	MP	F			11.56
R2000-0128	Smarts	MP	F			10.43
				5	Mean	7.39
					SD	4.57
					n	5
R2000-0003	D-Strip	PM	F			24.65
R2000-0004	D-Strip	PM	M			21.08
R2000-0005	D-Strip	PM	F			6.53
R2000-0006	D-Strip	PM	M			44.38
R2000-0007	D-Strip	PM	M			11.4
R2000-0008	D-Strip	PM	F			40.81
				6	Mean	24.81
					SD	15.28
					n	6
R2000-0012	H1	PM	M			14.73
R2000-0013	H1	PM	F			16.78
R2000-0014	H1	PM	M			13.79
R2000-0015	H1	PM	F			12.64
R2000-0016	H1	PM	F			12.38
R2000-0017	H1	PM	M			28.77
R2000-0018	H1	PM	M			19.1
R2000-0019	H1	PM	M			14.46
R2000-0020	H1	PM	F			22.01
R2000-0021	H1	PM	F			19.09
				10	Mean	17.38
					SD	5.09
					n	10

Continued

**Table 7-24A.** Continued

SampleID	Site	Species	Sex/ N	ALAD Activity		
				(nmol ALA/ min*ml RBC)		
R2000-0025	H2	PM	F		33.21	
R2000-0026	H2	PM	F		9.98	
R2000-0027	H2	PM	F		13.61	
R2000-0028	H2	PM	M		25.15	
R2000-0029	H2	PM	M		25.63	
R2000-0030	H2	PM	F		37.39	
R2000-0031	H2	PM	M		15.32	
R2000-0032	H2	PM	M		38.96	
R2000-0033	H2	PM	M		16.17	
R2000-0034	H2	PM	F		8.43	
				10	Mean	22.39
					SD	11.30
					n	10
R2000-0045	L1	PM	F		5.65	
R2000-0046	L1	PM	M		26.63	
R2000-0047	L1	PM	F		6.22	
R2000-0048	L1	PM	M		13.94	
R2000-0049	L1	PM	M		23.76	
R2000-0050	L1	PM	M		8.52	
R2000-0051	L1	PM	F		37.9	
R2000-0052	L1	PM	M		8.96	
R2000-0053	L1	PM	M		22.68	
R2000-0054	L1	PM	M		24.02	
R2000-0055	L1	PM	F		21.85	
R2000-0056	L1	PM	F		11.48	
				12	Mean	17.63
					SD	9.99
					n	12

Continued

**Table 7-24A.** Continued

SampleID	Site	Species	Sex/ N	ALAD Activity		
				(nmol ALA/ min*ml RBC)		
R2000-0057	L2	PM	M		56.64	
R2000-0058	L2	PM	M		15.08	
R2000-0059	L2	PM	M		42.21	
R2000-0060	L2	PM	F		9.37	
R2000-0061	L2	PM	M		36.9	
R2000-0062	L2	PM	F		24.38	
R2000-0063	L2	PM	M		22.15	
R2000-0064	L2	PM	M		54.21	
R2000-0065	L2	PM	M		22.5	
R2000-0066	L2	PM	F		16.79	
R2000-0067	L2	PM	F		13	
				11	Mean	28.48
					SD	16.52
					n	11
R2000-0078	M1	PM	F		49.54	
R2000-0079	M1	PM	M		20.71	
R2000-0080	M1	PM	M		12.03	
R2000-0081	M1	PM	M		18.37	
R2000-0082	M1	PM	M		28.68	
R2000-0083	M1	PM	M		17.42	
R2000-0084	M1	PM	F		23.77	
R2000-0085	M1	PM	M		10.63	
R2000-0086	M1	PM	F		25.29	
R2000-0087	M1	PM	F		37.7	
R2000-0088	M1	PM	F		21.88	
				11	Mean	24.18
					SD	11.29
					n	11

Continued

**Table7-24A.** Continued

SampleID	Site	Species	Sex/ N	ALAD Activity		
				(nmol ALA/ min*ml RBC)		
R2000-0089	M2	PM	F		25.59	
R2000-0090	M2	PM	M		10.54	
R2000-0091	M2	PM	F		16.25	
R2000-0092	M2	PM	F		23.28	
R2000-0093	M2	PM	M		16.37	
R2000-0094	M2	PM	M		8.49	
R2000-0095	M2	PM	M		17.04	
R2000-0096	M2	PM	F		11.35	
R2000-0097	M2	PM	M		13.99	
R2000-0098	M2	PM	F		16.47	
				10	Mean	15.94
					SD	5.36
					n	10
R2000-0114	Smarco	PM	F		13.33	
R2000-0115	Smarco	PM	F		27.61	
R2000-0116	Smarco	PM	M		4.4	
R2000-0117	Smarco	PM	F		9.83	
R2000-0118	Smarco	PM	M		5.69	
R2000-0119	Smarco	PM	F		12.53	
R2000-0120	Smarco	PM	M		15.92	
R2000-0122	Smarco	PM	M		15.69	
				8	Mean	13.13
					SD	7.24
					n	8

Continued

**Table 7-24A.** Continued

SampleID	Site	Species	Sex/ N	ALAD Activity		
				(nmol ALA/ min*ml RBC)		
R2000-0129	Smarts	PM	F		47.47	
R2000-0130	Smarts	PM	F		21.1	
R2000-0131	Smarts	PM	M		17.62	
R2000-0132	Smarts	PM	F		19.98	
R2000-0133	Smarts	PM	M		16.81	
R2000-0134	Smarts	PM	M		36.99	
R2000-0135	Smarts	PM	F		5.96	
R2000-0136	Smarts	PM	M		9.47	
R2000-0137	Smarts	PM	F		15.11	
R2000-0138	Smarts	PM	M		21.55	
				10	Mean	21.21
					SD	12.38
					n	10
R2000-0009	Governor's Plot	TT	F		41.79	
R2000-0035	High	TT	F		23.61	
R2000-0036	High	TT	F		39.44	
R2000-0037	High	TT	F		54.05	
R2000-0038	High	TT	F		40.42	
R2000-0039	High	TT	F		39.23	
R2000-0040	High	TT	F		39.57	
R2000-0041	High	TT	F		22.08	
R2000-0042	High	TT	F		24.43	
R2000-0043	High	TT	M		37.37	
R2000-0044	High	TT	M		30.14	
				10	Mean	35.03
					SD	9.94
					n	10

Continued

**Table 7-24A.** Continued

SampleID	Site	Species	Sex/ N	ALAD Activity		
				(nmol ALA/ min*ml RBC)		
R2000-0068	Low	TT	F		70.77	
R2000-0069	Low	TT	M		41.06	
R2000-0070	Low	TT	F		31.18	
R2000-0071	Low	TT	M		47.07	
R2000-0072	Low	TT	F		42.16	
R2000-0073	Low	TT	F		95.55	
R2000-0074	Low	TT	M		56.91	
R2000-0075	Low	TT	F		45.77	
R2000-0076	Low	TT	F		57.3	
R2000-0077	Low	TT	F		50.55	
				10	Mean	53.83
					SD	18.20
					n	10
R2000-0099	Medium	TT	F		85.94	
R2000-0100	Medium	TT	M		38.47	
R2000-0102	Medium	TT	M		23.67	
R2000-0103	Medium	TT	M		65.04	
R2000-0104	Medium	TT	M		59.72	
R2000-0105	Medium	TT	F		86.74	
R2000-0106	Medium	TT	M		69.41	
R2000-0107	Medium	TT	F		44.56	
R2000-0108	Medium	TT	M		33.89	
				9	Mean	56.38
					SD	22.60
					n	9

**Table 6-25A.** Liver porphyrins. Anaconda Smelter Site, 1999. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
<u>Gopher</u>								
R1999-0001	gopher	high	01	f		38.166	48.251	123.668
R1999-0003	gopher	high	03	f		36.545	37.309	73.854
R1999-0006	gopher	high	06	f		39.360	80.437	149.716
R1999-0004	gopher	high	04	m		68.821	73.394	225.208
R1999-0005	gopher	high	05	m		83.738	72.112	197.980
		high			5	Mean	53.326	62.301
						SD	21.630	18.508
						n	5	5
R1999-0007	gopher	low	01	f		59.463	70.630	214.896
R1999-0009	gopher	low	03	f		58.452	98.989	220.280
R1999-0008	gopher	low	02	m		34.232	68.795	131.852
R1999-0010	gopher	low	04	m		46.674	116.231	220.567
R1999-0011	gopher	low	05	m		100.956	57.579	266.231
R1999-0012	gopher	low	06	m		40.991	89.408	144.492
		low			6	Mean	56.795	83.605
						SD	23.754	21.908
						n	6	6
R1999-0013	gopher	medium	01	f		36.434	34.539	107.759
R1999-0016	gopher	medium	04	f		51.493	89.730	175.899
R1999-0018	gopher	medium	06	f		61.572	60.444	164.690
R1999-0019	gopher	medium	07	f		76.279	95.413	180.609
R1999-0014	gopher	medium	02	m		106.172	54.478	160.650
R1999-0015	gopher	medium	03	m		31.653	46.237	100.378
R1999-0017	gopher	medium	05	m		89.202	279.822	426.043
		medium			7	Mean	64.686	94.381
						SD	27.476	84.709
						n	7	7

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
<b><u>Meadow Vole</u></b>								
R1999-0021	mp	anarts	0021	f		49.467	45.200	175.433
R1999-0022	mp	anarts	0022	f		32.495	15.774	165.567
R1999-0024	mp	anarts	0043	f		76.173	25.864	441.667
R1999-0025	mp	anarts	0045	f		87.522	38.242	344.211
R1999-0026	mp	anarts	0055	f		57.133	20.901	338.432
R1999-0027	mp	anarts	1001	f		81.344	67.470	361.897
R1999-0023	mp	anarts	0031	m		77.365	35.714	411.642
R1999-0028	mp	anarts	1002	m		41.233	49.797	228.560
		anarts			8	Mean SD n	37.370 16.883 8	308.426 105.506 8
R1999-0029	mp	H1	0021	f		66.022	74.194	191.882
R1999-0030	mp	H1	0022	f		38.125	53.259	308.549
		H1			2	Mean SD n	63.726 14.803 2	250.215 82.496 2
R1999-0035	mp	H2	0042	f		31.627	16.852	67.214
R1999-0036	mp	H2	0044	f		47.378	38.321	376.854
R1999-0037	mp	H2	0051	f		61.759	251.514	525.773
R1999-0039	mp	H2	0055	f		47.769	27.778	130.419
R1999-0032	mp	H2	0024	m		70.771	70.927	141.698
R1999-0033	mp	H2	0025	m		43.167	53.197	246.510
R1999-0034	mp	H2	0041	m		44.767	51.606	227.968
R1999-0038	mp	H2	0053	m		67.892	133.683	201.575
R1999-0040	mp	H2	0102	m		58.148	28.814	122.920
R1999-0041	mp	H2	0103	m		166.137	68.663	339.813
R1999-0042	mp	H2	0120	m		60.092	86.322	281.735
		H2			11	Mean SD n	75.243 67.006 11	242.044 133.773 11

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0045	mp	L2	0110	f		53.752	28.599	148.086
R1999-0043	mp	L2	00313	m		30.257	48.630	147.036
R1999-0044	mp	L2	0041	m		40.114	133.698	173.812
		L2			3	Mean 41.374	70.309	156.311
						SD 11.798	55.803	15.165
					n 3		3	3
R1999-0046	mp	M1	0012	f		73.022	71.519	266.179
R1999-0047	mp	M1	0032	f		69.177	38.401	334.519
		M1			2	Mean 71.100	54.960	300.349
						SD 2.719	23.418	48.324
					n 2		2	2
R1999-0052	mp	M2	0032	f		92.815	89.252	481.016
R1999-0055	mp	M2	0041	f		53.605	51.497	129.184
R1999-0054	mp	M2	0035	m		60.888	69.542	238.973
R1999-0056	mp	M2	0051	m		37.678	65.339	267.843
		M2			4	Mean 61.247	68.907	279.254
						SD 23.170	15.601	147.176
					n 4		4	4
R1999-0059	mp	oparts	0031	f		63.240	130.335	304.860
R1999-0057	mp	oparts	0023	m		52.123	54.874	189.308
R1999-0058	mp	oparts	0024	m		83.659	68.296	372.765
R1999-0060	mp	oparts	4425	m		58.809	70.849	184.221
		oparts			4	Mean 64.458	81.089	262.789
						SD 13.592	33.570	92.082
					n 4		4	4

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0061	mp	smarco	0011	f		162.947	57.891	479.593
R1999-0069	mp	smarco	0035	f		40.428	14.724	201.370
R1999-0077	mp	smarco	0103	f		51.563	8.821	280.229
R1999-0082	mp	smarco	0105	f		80.153	113.168	406.043
R1999-0088	mp	smarco	0111	f		75.278	61.871	394.833
R1999-0074	mp	smarco	0043	m		54.931	95.661	313.905
R1999-0075	mp	smarco	0052	m		63.470	19.475	268.904
R1999-0076	mp	smarco	0055	m		66.726	18.847	269.295
R1999-0087	mp	smarco	0106	m		61.149	19.354	220.844
		smarco			9	Mean	72.961	45.535
						SD	35.820	38.536
					n	9	9	9
R1999-0094	mp	smarts	0032	f		81.427	29.236	195.746
R1999-0095	mp	smarts	0034	f		49.640	22.121	98.704
R1999-0099	mp	smarts	0044	f		31.368	9.136	108.461
R1999-0106	mp	smarts	0113	f		25.486	11.114	149.895
R1999-0108	mp	smarts	0120	f		31.849	17.971	164.757
R1999-0107	mp	smarts	0114	m		38.172	59.889	215.111
R1999-0109	mp	smarts	0123	m		44.165	69.544	264.403
R1999-0110	mp	smarts	0131	m		119.341	175.275	364.505
R1999-0111	mp	smarts	0133	m		78.788	44.189	182.444
R1999-0113	mp	smarts	0135	m		26.450	26.911	79.702
R1999-0114	mp	smarts	0140	m		57.183	40.714	189.325
R1999-0115	mp	smarts	0141	m		94.942	26.256	245.905
R1999-0118	mp	smarts	1124	m		139.521	64.734	439.681
		smarts			13	Mean	62.949	45.930
						SD	37.122	43.597
					n	13	13	13

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
<b><u>Deer Mouse</u></b>								
R1999-0119	pm	anarts	0023	f		82.451	84.372	257.857
R1999-0121	pm	anarts	0041	f		53.119	43.716	96.835
R1999-0123	pm	anarts	0101	f		120.859	125.052	332.749
R1999-0129	pm	anarts	0114	f		70.273	42.427	228.316
R1999-0130	pm	anarts	0115	f		244.816	389.799	723.328
R1999-0132	pm	anarts	0122	f		116.328	11.962	216.148
R1999-0120	pm	anarts	0035	m		92.556	47.649	186.500
R1999-0122	pm	anarts	0045	m		78.525		214.752
R1999-0124	pm	anarts	0104	m		121.201	24.932	224.477
R1999-0126	pm	anarts	0110	m		76.804	17.552	148.376
R1999-0127	pm	anarts	0112	m		81.051	70.413	340.741
R1999-0128	pm	anarts	0113	m		67.364	31.446	211.560
R1999-0131	pm	anarts	0120	m		55.571	128.697	267.454
R1999-0133	pm	anarts	0123	m		56.195	50.851	202.496
				anarts	14	Mean SD n	82.221 99.569 13	260.828 147.520 14
R1999-0136	pm	H1	0013	f		59.081	56.980	116.061
R1999-0137	pm	H1	0015	f		45.074	47.200	92.274
R1999-0148	pm	H1	0043	f		91.855	24.641	197.182
R1999-0151	pm	H1	0055	f		94.756	228.263	489.231
R1999-0153	pm	H1	0110	f		96.667	86.491	311.140
R1999-0154	pm	H1	0111	f		47.188	18.818	98.849
R1999-0156	pm	H1	0114	f		86.096	22.645	222.600
R1999-0158	pm	H1	0131	f		95.102	28.857	179.388
R1999-0160	pm	H1	0135	f		45.647	88.778	200.040
R1999-0161	pm	H1	0140	f		73.904	42.935	149.330
R1999-0163	pm	H1	0142	f		55.708	48.062	103.770
R1999-0166	pm	H1	0145	f		155.512	134.016	343.150
R1999-0168	pm	H1	0201	f		77.591	53.174	201.166
R1999-0143	pm	H1	0021	m		52.998	27.122	162.315
R1999-0145	pm	H1	0024	m		72.646	54.821	176.457
R1999-0146	pm	H1	0035	m		45.093	38.004	117.176
R1999-0147	pm	H1	0042	m		42.459	121.752	226.827
R1999-0149	pm	H1	0044	m		77.794	67.788	282.212
R1999-0150	pm	H1	0054	m		44.595	182.891	227.486

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4	2	Total
						pmol/g	pmol/g	pmol/g
R1999-0152	pm	H1	0104	m		103.955	26.728	171.232
R1999-0155	pm	H1	0112	m		40.605	110.632	194.798
R1999-0159	pm	H1	0132	m		67.737	66.104	187.704
R1999-0162	pm	H1	0141	m		31.221	184.356	305.017
R1999-0164	pm	H1	0143	m		65.711	32.793	155.860
R1999-0165	pm	H1	0144	m		126.234	44.892	213.810
		H1			25	Mean	71.809	73.550
						SD	29.679	56.791
					n	25	25	25
R1999-0170	pm	H2	0022	f		100.405	131.285	264.255
R1999-0174	pm	H2	0035	f		119.452	126.973	335.144
R1999-0175	pm	H2	0041	f		34.755	202.619	237.374
R1999-0178	pm	H2	0045	f		86.067	71.789	269.466
R1999-0179	pm	H2	0052	f		65.785	102.123	242.909
R1999-0182	pm	H2	0113	f		50.348	30.736	130.678
R1999-0183	pm	H2	0114	f		113.877	106.444	264.759
R1999-0184	pm	H2	0115	f		41.890	111.600	233.835
R1999-0185	pm	H2	0121	f		33.029	46.976	211.882
R1999-0187	pm	H2	0125	f		33.282	19.539	91.332
R1999-0189	pm	H2	0132	f		110.596	75.554	287.604
R1999-0192	pm	H2	0135	f		125.000	64.151	360.259
R1999-0171	pm	H2	0023	m		106.430	35.477	203.714
R1999-0172	pm	H2	0031	m		85.644	160.588	376.940
R1999-0173	pm	H2	0034	m		74.147	445.563	559.215
R1999-0176	pm	H2	0042	m		70.470	62.965	187.492
R1999-0177	pm	H2	0044	m		90.702	35.589	205.217
R1999-0180	pm	H2	0053	m		54.032	157.714	211.746
R1999-0181	pm	H2	0054	m		70.894	47.275	253.075
R1999-0186	pm	H2	0123	m		83.460	76.351	270.047
R1999-0188	pm	H2	0130	m		95.579	30.730	182.489
R1999-0190	pm	H2	0133	m		81.208	36.321	117.530
R1999-0191	pm	H2	0134	m		65.208	83.446	210.831
R1999-0193	pm	H2	0140	m		58.856	41.417	140.940
R1999-0194	pm	H2	0141	m		104.837	74.970	289.903
R1999-0195	pm	H2	0142	m		78.918	103.741	280.485
R1999-0196	pm	H2	1121	m		61.065	133.577	308.386
		H2			27	Mean	77.627	96.871
						SD	26.719	83.822
					n	27	27	27

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0207	pm	L1	0031	f		58.977	123.677	258.298
R1999-0209	pm	L1	0101	f		35.516	37.114	92.706
R1999-0210	pm	L1	0112	f		94.687	227.038	349.017
R1999-0213	pm	L1	0122	f		33.212	46.405	188.226
R1999-0214	pm	L1	0123	f		32.350	29.536	86.885
R1999-0216	pm	L1	0130	f		53.916	81.888	135.804
R1999-0217	pm	L1	0131	f		70.931	228.454	299.386
R1999-0218	pm	L1	0132	f		274.577	112.458	620.744
R1999-0221	pm	L1	0135	f		186.925	159.855	509.330
R1999-0222	pm	L1	0140	f		89.156	137.390	382.532
R1999-0225	pm	L1	0404	f		40.324	37.428	77.752
R1999-0203	pm	L1	0012	m		93.604	43.922	446.148
R1999-0204	pm	L1	0014	m		262.530	45.567	494.858
R1999-0205	pm	L1	0023	m		55.187	103.316	255.401
R1999-0206	pm	L1	0024	m		102.503	182.537	406.712
R1999-0208	pm	L1	0042	m		57.397	142.486	332.184
R1999-0212	pm	L1	0115	m		78.360	30.582	154.709
R1999-0215	pm	L1	0124	m		89.852	111.469	310.148
R1999-0219	pm	L1	0133	m		57.227	225.045	282.273
R1999-0220	pm	L1	0134	m		65.079	91.832	231.257
R1999-0223	pm	L1	0141	m		65.291	53.752	152.283
R1999-0224	pm	L1	0142	m		855.495	58.901	1234.396
		L1			22	Mean	125.141	105.030
						SD	176.145	66.559
					n	22	22	22
R1999-0242	pm	L2	0012	f		53.548	107.764	161.312
R1999-0247	pm	L2	0031	f		76.879	76.311	173.295
R1999-0249	pm	L2	0033	f		64.582	26.751	117.573
R1999-0250	pm	L2	0034	f		162.760	153.000	315.760
R1999-0253	pm	L2	0054	f		70.218	67.226	190.662
R1999-0254	pm	L2	0055	f		112.696	67.750	262.274
R1999-0257	pm	L2	0121	f		91.925	67.391	304.400
R1999-0261	pm	L2	0134	f		52.542	244.009	325.570
R1999-0263	pm	L2	0140	f		74.149	23.515	239.232
R1999-0264	pm	L2	0141	f		155.445	38.968	427.415
R1999-0241	pm	L2	0011	m		68.219	105.297	204.825
R1999-0243	pm	L2	0013	m		69.289	136.497	205.787
R1999-0244	pm	L2	0022	m		68.475	85.033	153.508
R1999-0245	pm	L2	0023	m		43.867	56.224	221.181

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0246	pm	L2	0025	m		60.317	19.215	179.657
R1999-0248	pm	L2	0032	m		60.916	57.656	184.196
R1999-0251	pm	L2	0051	m		53.301	47.282	156.553
R1999-0256	pm	L2	0112	m		151.667		257.828
R1999-0259	pm	L2	0131	m		63.861	107.039	170.900
R1999-0260	pm	L2	0133	m		169.622	51.497	376.123
R1999-0262	pm	L2	0135	m		55.831	36.997	145.878
R1999-0265	pm	L2	0142	m		84.371	90.427	280.046
R1999-0266	pm	L2	0143	m		211.507	59.590	344.583
R1999-0267	pm	L2	0144	m		53.376	218.153	271.529
R1999-0268	pm	L2	0145	m		60.664	61.713	249.942
L2				25	Mean	87.601	83.554	236.801
					SD	45.508	56.690	79.245
					n	25	24	25
R1999-0279	pm	M1	0014	f		42.864	127.105	197.529
R1999-0281	pm	M1	0021	f		68.792	60.050	176.810
R1999-0283	pm	M1	0025	f		33.333	55.115	135.862
R1999-0285	pm	M1	0044	f		85.842	38.965	216.746
R1999-0286	pm	M1	0053	f		32.288	95.023	178.733
R1999-0295	pm	M1	0151	f		75.950	85.919	262.258
R1999-0296	pm	M1	0155	f		67.074	29.664	96.738
R1999-0302	pm	M1	0232	f		56.498	25.271	176.173
R1999-0303	pm	M1	0235	f		44.875	31.897	76.772
R1999-0304	pm	M1	0242	f		75.134	104.278	327.072
R1999-0305	pm	M1	0243	f		78.883	42.426	121.309
R1999-0278	pm	M1	0013	m		23.380	99.514	201.215
R1999-0280	pm	M1	0015	m		43.737	61.882	105.619
R1999-0282	pm	M1	0024	m		85.005	154.762	402.077
R1999-0284	pm	M1	0033	m		67.217	27.087	137.217
R1999-0287	pm	M1	0101	m		80.611	27.206	140.286
R1999-0288	pm	M1	0111	m		105.118	120.584	225.701
R1999-0289	pm	M1	0114	m		53.573	85.067	138.640
R1999-0290	pm	M1	0125	m		74.372	106.883	201.903
R1999-0293	pm	M1	0132	m		69.833	36.613	148.118
R1999-0297	pm	M1	0213	m		54.794	37.358	128.764
R1999-0298	pm	M1	0214	m		37.103	56.882	146.631
R1999-0299	pm	M1	0220	m		66.393	179.715	459.101
M1				23	Mean	61.855	73.446	191.360
					SD	20.505	43.950	94.324
					n	23	23	23

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0313	pm	M2	0034	f		34.350	426.009	460.359
R1999-0314	pm	M2	0041	f		35.712	20.769	56.481
R1999-0315	pm	M2	0042	f		100.954	74.122	175.076
R1999-0317	pm	M2	0051	f		51.768	63.720	115.488
R1999-0321	pm	M2	0055	f		58.894	138.585	372.339
R1999-0323	pm	M2	0102	f		107.368	356.211	463.579
R1999-0326	pm	M2	0110	f		68.057	31.362	144.541
R1999-0327	pm	M2	0111	f		293.077	106.667	462.821
R1999-0330	pm	M2	0114	f		229.036	102.530	400.964
R1999-0312	pm	M2	0025	m		68.798	71.667	255.775
R1999-0316	pm	M2	0045	m		52.931	100.586	153.517
R1999-0318	pm	M2	0052	m		49.264	54.535	143.527
R1999-0319	pm	M2	0053	m		74.188	18.261	220.096
R1999-0320	pm	M2	0054	m		89.352	90.569	265.363
R1999-0322	pm	M2	0101	m		91.620	38.791	311.245
R1999-0324	pm	M2	0103	m		80.792	173.612	279.423
R1999-0325	pm	M2	0105	m		70.687	106.870	224.962
R1999-0328	pm	M2	0112	m		41.145	72.470	113.614
R1999-0329	pm	M2	0113	m		106.487	186.922	336.301
M2				19	Mean	89.709	117.592	260.814
					SD	65.319	107.426	128.252
				n	19	19	19	19
R1999-0344	pm	smarco	0012	f		209.775	14.245	364.223
R1999-0348	pm	smarco	0032	f		60.125	21.438	81.563
R1999-0352	pm	smarco	0101	f		101.084	78.973	199.716
R1999-0353	pm	smarco	0105	f		168.607	114.828	746.412
R1999-0361	pm	smarco	01525	f		64.205	20.200	117.550
R1999-0346	pm	smarco	0015	m		40.715	178.539	279.947
R1999-0347	pm	smarco	0023	m		50.087	88.705	138.792
R1999-0349	pm	smarco	0034	m		82.683	45.806	173.463
R1999-0350	pm	smarco	0042	m		60.835	77.886	225.533
R1999-0351	pm	smarco	0053	m		61.576	17.887	99.612
R1999-0354	pm	smarco	0112	m		52.493	193.658	391.422
R1999-0355	pm	smarco	0125	m		112.222	254.300	465.942
R1999-0357	pm	smarco	0135	m		109.936	106.282	371.923
R1999-0362	pm	smarco	0220	m		85.120	18.638	184.627
smarco				14	Mean	89.962	87.956	274.338
					SD	48.248	75.564	181.390
				n	14	14	14	14

Continued

**Table 6-25A.** Continued

SampleID	Species	Site	FieldID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0339	pm	oparts	0022	f	1	100.968	126.865	260.976
R1999-0364	pm	smarts	0014	f		33.291	335.092	385.881
R1999-0370	pm	smarts	0024	f		67.583	84.307	226.804
R1999-0372	pm	smarts	0043	f		65.148	24.741	117.702
R1999-0375	pm	smarts	0104	f		29.751	28.209	57.959
R1999-0376	pm	smarts	0121	f		49.326	24.734	131.618
R1999-0382	pm	smarts	0143	f		39.861	42.808	194.151
R1999-0371	pm	smarts	0034	m		95.418	62.062	254.582
R1999-0373	pm	smarts	0045	m		53.843	135.757	250.490
R1999-0374	pm	smarts	0102	m		65.252	48.094	113.345
R1999-0377	pm	smarts	0131	m		41.890	47.366	89.256
R1999-0379	pm	smarts	0133	m		62.077	160.385	288.565
R1999-0380	pm	smarts	0135	m		81.508	65.548	147.055
R1999-0381	pm	smarts	0142	m		108.333	26.009	1233.357
R1999-0387	pm	smarts	0230	m		100.740	82.334	292.172
R1999-0389	pm	smarts	0251	m		60.639	52.098	237.313
smarts				15	Mean	63.644	81.303	268.017
					SD	24.118	80.676	281.729
				n	15		15	15

**Table 6-26A.** Kidney porphyrins. Anaconda Smelter Site, 1999. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	Site	Field ID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
<u>Gopher</u>								
R1999-0006	gopher	high	06	f		60.805	44.285	105.090
R1999-0001	gopher	high	01	f		38.397	67.761	106.158
R1999-0003	gopher	high	03	f		65.735	77.649	143.385
R1999-0002	gopher	high	02	f		74.954	90.602	165.557
R1999-0005	gopher	high	05	m		49.003	42.626	91.629
R1999-0004	gopher	high	04	m		111.338	93.773	205.112
		high			6	Mean 66.706	69.449	136.155
						SD 25.340	22.190	43.633
					n 6		6	6
R1999-0007	gopher	low	01	f		36.330	45.179	81.509
R1999-0009	gopher	low	03	f		64.260	88.966	153.226
R1999-0010	gopher	low	04	m		27.105	58.702	85.807
R1999-0008	gopher	low	02	m		34.246	55.991	90.237
R1999-0012	gopher	low	06	m		36.348	56.416	92.764
R1999-0011	gopher	low	05	m		57.737	55.169	112.906
		low			6	Mean 42.671	60.071	102.742
						SD 14.741	14.917	27.002
					n 6		6	6
R1999-0018	gopher	medium	06	f		44.830	49.811	94.641
R1999-0019	gopher	medium	07	f		55.117	70.582	125.699
R1999-0016	gopher	medium	04	f		56.598	80.802	137.400
R1999-0017	gopher	medium	05	m		30.010	42.589	72.599
		medium			4	Mean 46.639	60.946	107.585
						SD 12.259	17.777	29.488
					n 4		4	4
<u>Meadow Vole</u>								
R1999-0041	mp	H2	0103	m	1	66.655	93.102	175.135

Continued

**Table 6-26A.** Continued

SampleID	Species	Site	Field ID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0107	mp	smarts	0114	m		43.161	43.587	86.748
R1999-0118	mp	smarts	1124	m		59.217	39.247	98.464
R1999-0115	mp	smarts	0141	m		64.883	33.685	119.319
R1999-0114	mp	smarts	0140	m		103.592	47.684	151.276
		smarts			4	Mean 67.713	41.051	113.952
						SD 25.627	5.998	28.295
					n 4		4	4
<b>Deer Mouse</b>								
R1999-0162	pm	H1	0141	m		35.458	30.352	65.810
R1999-0145	pm	H1	0024	m		36.912	30.528	67.439
R1999-0165	pm	H1	0144	m		67.964	34.255	102.220
R1999-0149	pm	H1	0044	m		73.160	44.511	117.672
		H1			4	Mean 53.374	34.912	88.285
						SD 19.970	6.648	25.803
					n 4		4	4
R1999-0182	pm	H2	0113	f		51.606	46.979	98.585
R1999-0179	pm	H2	0052	f		50.676	35.160	105.445
R1999-0178	pm	H2	0045	f		55.396	34.654	117.032
R1999-0181	pm	H2	0054	m		33.108		33.108
R1999-0177	pm	H2	0044	m		57.106	27.404	84.511
R1999-0186	pm	H2	0123	m		62.906	22.682	85.587
R1999-0171	pm	H2	0023	m		192.954	56.178	249.131
		H2			7	Mean 71.965	37.176	110.486
						SD 54.150	12.435	66.726
					n 7		6	7
R1999-0212	pm	L1	0115	m		38.918	26.407	65.325
R1999-0204	pm	L1	0014	m		103.382	75.141	178.523
		L1			2	Mean 71.150	50.774	121.924
						SD 45.583	34.460	80.043
					n 2		2	2

Continued

**Table 6-26A.** Continued

SampleID	Species	Site	Field ID	Sex	Site N	Carboxyl Porphyrins		
						4 pmol/g	2 pmol/g	Total pmol/g
R1999-0259	pm	L2	0131	m		44.622	30.428	75.050
R1999-0262	pm	L2	0135	m		51.991	23.360	75.351
R1999-0251	pm	L2	0051	m		44.871	60.036	104.906
R1999-0246	pm	L2	0025	m		62.010	43.662	105.672
R1999-0266	pm	L2	0143	m		91.465	69.263	160.728
		L2			5	Mean 58.992	45.350	104.341
						SD 19.484	19.343	34.928
						n 5	5	5
R1999-0284	pm	M1	0033	m		35.586	18.546	54.132
R1999-0287	pm	M1	0101	m		65.052		65.052
R1999-0298	pm	M1	0214	m		26.928	43.830	70.758
R1999-0293	pm	M1	0132	m		36.129	51.750	87.880
		M1			4	Mean 40.924	38.042	69.455
						SD 16.628	17.343	14.087
						n 4	3	4
R1999-0349	pm	smarco	0034	m		35.332	19.213	54.545
R1999-0351	pm	smarco	0053	m		40.351	19.216	59.568
R1999-0362	pm	smarco	0220	m		60.174	45.510	124.185
R1999-0347	pm	smarco	0023	m		62.180	69.046	131.226
		smarco			4	Mean 49.509	38.246	92.381
						SD 13.652	23.985	40.942
						n 4	4	4
R1999-0379	pm	smarts	0133	m		27.745	25.623	53.367
R1999-0381	pm	smarts	0142	m		39.813	30.938	70.750
R1999-0389	pm	smarts	0251	m		39.314	54.960	94.274
R1999-0374	pm	smarts	0102	m		75.560	58.017	133.578
		smarts			4	Mean 45.608	42.384	87.992
						SD 20.732	16.477	34.707
						n 4	4	4

**Table 6-27A.** Hematology. Anaconda Smelter Site, 1999. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species	FieldID	Site	N	WBC	RBC	HGB	HCT	MCV	MCH	MCHC
					x 10 <sup>3</sup> /ul	x 10 <sup>6</sup> /ul	g/dl	%	u 3	pg	%
<u>Meadow Vole</u>											
R1999-0021	mp	0021	anarts		10.85	14.6	51	41.8	13.5	32.2	
R1999-0022	mp	0022	anarts		11.71	14.8	49	38.7	12.6	32.7	
R1999-0025	mp	0045	anarts		14.23	17.5		37.3	12.3	33	
R1999-0026	mp	0055	anarts		11.11	13.5	54	36.8	12.2	33	
R1999-0027	mp	1001	anarts		10.49	12.9	45	38.9	12.3	31.6	
R1999-0023	mp	0031	anarts		9.95	13.4	54	39.4	13.5	34.2	
R1999-0028	mp	1002	anarts		9.94	12.4	55	35.1	12.5	35.5	
			anarts	8	Mean	11.183	14.157	51.333	38.286	12.700	33.171
					SD	1.485	1.706	3.830	2.140	0.563	1.302
					n	7	7	6	7	7	7
R1999-0029	mp	0021	H1		11.98	14.6	51	35.9	12.2	34	
R1999-0030	mp	0022	H1		10.62	13.8	43	40.1	13	32.4	
			H1	2	Mean	11.300	14.200	47.000	38.000	12.600	33.200
					SD	0.962	0.566	5.657	2.970	0.566	1.131
					n	2	2	2	2	2	2
R1999-0035	mp	0042	H2		8.32	10.8	35	37.9	13	34.3	
R1999-0036	mp	0044	H2		6.47	11.5	45	47.9	17.8	37.1	
R1999-0037	mp	0051	H2		9.8	13.8	49	44.4	14.1	31.7	
R1999-0039	mp	0055	H2		12.51	14.6	56.5	36.1	11.7	32.3	
R1999-0033	mp	0025	H2		10.32	13.4	48	38.9	13	33.4	
R1999-0038	mp	0053	H2		10.81	13.5	56	44.3	12.5	28.2	
			H2	6	Mean	9.705	12.933	48.250	41.583	13.683	32.833
					SD	2.091	1.461	7.936	4.605	2.163	2.957
					n	6	6	6	6	6	6
R1999-0045	mp	0110	L2	1		5.77	8.3	49	42.8	14.4	33.6
			L2	1	Mean	5.770	8.300	49.000	42.800	14.400	33.600
					SD	-	-	-	-	-	-
					n	1	1	1	1	1	1

Continued

**Table 6-27A.** Continued

Sample ID	Species	FieldID	Site	N	WBC	RBC	HGB	HCT	MCV	MCH	MCHC
					x 10 <sup>3</sup> /ul	x 10 <sup>6</sup> /ul	g/dl	%	u 3	pg	%
R1999-0052	mp	0032	M2		8.33	11.3	45	41	13.6	33	
R1999-0056	mp	0051	M2		11.65	14.8		38.4	12.7	33.1	
			M2	2	Mean	9.990	13.050	45.000	39.700	13.150	33.050
					SD	2.348	2.475	#DIV/0!	1.838	0.636	0.071
					n	2	2	1	2	2	2
R1999-0059	mp	0031	oparts		11.75	13.9	42	37	11.8	32	
R1999-0057	mp	0023	oparts		9.65	12.1		37.7	12.5	33.2	
R1999-0058	mp	0024	oparts		12.43	14.2	52	34.7	11.4	32.9	
R1999-0060	mp	4425	oparts		7.23	9		36.3	12.4	34.4	
			oparts	4	Mean	10.265	12.300	47.000	36.425	12.025	33.125
					SD	2.344	2.387	7.071	1.284	0.519	0.991
					n	4	4	2	4	4	4
R1999-0061	mp	0011	smarco		9.86	12.7	45	41.2	12.9	31.3	
R1999-0069	mp	0035	smarco		9.55	12.6	45	41	13.2	32.1	
R1999-0077	mp	0103	smarco		11.46	16.9		39.9	14.7	37	
R1999-0082	mp	0105	smarco		7.06	10.1	41	42.8	14.3	33.4	
R1999-0088	mp	0111	smarco		8.99	12.9		43.4	14.3	33.1	
R1999-0074	mp	0043	smarco		11.46	14.6	65	37.9	12.7	33.6	
R1999-0075	mp	0052	smarco		9.46	14	45	40.4	14.8	36.6	
R1999-0076	mp	0055	smarco		8.15	15.2	57	40.9	19	46.5	
R1999-0087	mp	0106	smarco		10.28	13.7	55	39.5	13.3	33.7	
			smarco	9	Mean	9.586	13.633	50.429	40.778	14.356	35.256
					SD	1.432	1.909	8.696	1.660	1.911	4.612
					n	9	9	7	9	9	9
R1999-0094	mp	0032	smarts		10.03	12.3	41	41.3	12.3	29.7	
R1999-0095	mp	0034	smarts		9.14	13.9		45.7	15.2	33.3	
R1999-0099	mp	0044	smarts		9.02	12.6	45	41	14	34.1	
R1999-0106	mp	0113	smarts		9.02	13.9	50	50.3	15.4	30.6	
R1999-0108	mp	0120	smarts		8.77	12.6	49	41.9	14.4	34.3	
R1999-0107	mp	0114	smarts		8.67	12.7	58	41.9	14.6	35	
R1999-0111	mp	0133	smarts		11.21	14.7	48	42.2	13.1	31.1	
R1999-0113	mp	0135	smarts		9.31	12.2	54	39.3	13.1	33.3	
R1999-0114	mp	0140	smarts		7.64	10.8	52	39.7	14.1	35.6	
R1999-0115	mp	0141	smarts		11.68	15.5	47	41	13.3	32.4	
R1999-0118	mp	1124	smarts		6.96	10.4	25	43.6	14.9	34.3	
			smarts	11	Mean	9.223	12.873	46.900	42.536	14.036	33.064
					SD	1.374	1.540	9.024	3.116	0.986	1.900
					n	11	11	10	11	11	11

**Table 6-27A.** Continued

Sample ID	Species	FieldID	Site	N	WBC x 10 <sup>3</sup> /ul	RBC x 10 <sup>6</sup> /ul	HGB g/dl	HCT %	MCV u 3	MCH pg	MCHC %		
<u>Deer Mouse</u>													
R1999-0119	pm	0023	anarts		9.2	6.13	10.6	34	47.3	17.3	36.6		
R1999-0121	pm	0041	anarts		2.7	10	14.4	45	43.5	14.4	33.1		
R1999-0123	pm	0101	anarts		2.2	7.36	12.6	35	46.7	17.1	36.6		
R1999-0129	pm	0114	anarts		4.3	5.48	9.1	35	47.2	16.6	35.1		
R1999-0130	pm	0115	anarts		3.7	10.05	16.7	47	47.8	16.6	34.8		
R1999-0132	pm	0122	anarts		6.8	9.76	15.1	60	44.9	15.5	34.5		
R1999-0120	pm	0035	anarts		6.8	8.87	13.5	59	44.8	15.2	34		
R1999-0122	pm	0045	anarts		4.9	9.42	13.9	44	44.6	14.8	33.1		
R1999-0124	pm	0104	anarts		2.9	9.39	13.6	50	43.7	14.5	33.2		
R1999-0126	pm	0110	anarts		3.2	7.97	13.2	50	46.8	16.6	35.4		
R1999-0127	pm	0112	anarts		4	9.01	13.7	51	43.8	15.2	34.7		
R1999-0128	pm	0113	anarts		4.3	9.49	13.9	43	42.8	14.6	34.2		
R1999-0131	pm	0120	anarts		3.6	8.69	12.1	47	41.4	13.9	33.6		
R1999-0133	pm	0123	anarts		6	9.83	13.6	57	41.5	13.8	33.3		
				anarts	14	Mean	4.614	8.675	13.286	46.929	44.771	15.436	34.443
						SD	1.950	1.440	1.839	8.471	2.131	1.193	1.186
						n	14	14	14	14	14	14	14
R1999-0136	pm	0013	H1		2.7	10.26	15.3	46	45.8	14.9	32.6		
R1999-0137	pm	0015	H1		2.5	9.35	13.3	45	42.8	14.2	33.3		
R1999-0148	pm	0043	H1		10.6	9.01	13.5	54	43.4	15	34.5		
R1999-0153	pm	0110	H1		3.2	7.03	13		53.5	18.5	34.6		
R1999-0154	pm	0111	H1		4.6	10.29	14.9	48	45.3	14.5	32		
R1999-0156	pm	0114	H1		7.8	8.25	11.4	41	40.6	13.8	34		
R1999-0158	pm	0131	H1		6.2	8.21	12.1	49	42.8	14.7	34.5		
R1999-0160	pm	0135	H1		4.7	7.23	13.3		50.2	18.4	36.6		
R1999-0161	pm	0140	H1		7.6	8.69	12.5	52	40.4	14.4	35.6		
R1999-0163	pm	0142	H1		5.2	7.82	12.5	51	45.1	16	35.4		
R1999-0166	pm	0145	H1		2.9	7.83	11.5	51	41.2	14.7	35.6		
R1999-0168	pm	0201	H1		5.7	9.41	13.7	55	43	14.6	33.8		

Continued

**Table 6-27A.** Continued

Sample ID	Species	FieldID	Site	N	WBC	RBC	HGB	HCT	MCV	MCH	MCHC
					x 10 <sup>3</sup> /ul	x 10 <sup>6</sup> /ul	g/dl	%	u 3	pg	%
R1999-0143	pm	0021	H1		16.3	9.95	13.5		41.4	13.6	32.8
R1999-0145	pm	0024	H1		5.3	7.78	12.2	53	44.9	15.7	35
R1999-0146	pm	0035	H1		2.6	9.22	12.8	43	41.9	13.9	33.2
R1999-0150	pm	0054	H1		2.2	9.88	13.4	46	42.1	13.6	32.2
R1999-0152	pm	0104	H1		5.9	8.23	13	50	45.1	15.8	35
R1999-0155	pm	0112	H1		3.9	10.69	13.5	45	39.9	12.6	31.6
R1999-0159	pm	0132	H1		11.6	10.64	14.4	56	41.2	13.5	32.9
R1999-0162	pm	0141	H1		8.8	10.61	13.8		40.1	13	32.5
R1999-0164	pm	0143	H1		6.4	9.23	13.5	44	42.3	14.6	34.6
R1999-0165	pm	0144	H1		7.7	9.31	12.8	56	40.2	13.7	34.2
				H1	22	Mean	6.109	9.042	13.177	49.167	43.327
						SD	3.457	1.127	0.963	4.656	3.349
					n	n	22	22	22	18	22
										22	22
R1999-0174	pm	0035	H2		8.2	9.77	13.6	49	42	13.9	33.2
R1999-0178	pm	0045	H2		8.9	10.38	14.5	45	41.8	14	33.4
R1999-0179	pm	0052	H2		9.7	9.13	13	45	41.9	14.2	33.9
R1999-0182	pm	0113	H2		5.9	5.99	12.1	43	62.8	23.1	36.9
R1999-0183	pm	0114	H2		6.3	9.39	13	44	42.7	13.8	32.4
R1999-0185	pm	0121	H2		10.4	9.65	13.7	52	41.4	14.2	34.3
R1999-0187	pm	0125	H2		7.6	8.24	12.7	52	42.9	15.4	36
R1999-0189	pm	0132	H2		2.6	9.16	13.1	42	43.1	14.3	33.2
R1999-0192	pm	0135	H2		5.5	8.53	12	48	41.8	14.1	33.6
R1999-0177	pm	0044	H2		1.6	9.85	12.2		46.6	12.4	26.6
R1999-0180	pm	0130	H2		2.7	4.85	8.7	25	51.8	17.9	34.7
R1999-0188	pm	0133	H2		4.6	8.04	12	45	44.1	14.9	33.8
R1999-0190	pm	0134	H2		5	9.32	13.3	47	41	14.3	34.8
R1999-0191	pm	0140	H2		7.5	9.36	12.5	40	40.1	13.4	33.3
R1999-0193	pm	0141	H2		6	9.73	13.1	51	39	13.5	34.6
R1999-0194	pm	0142	H2		21.3	9.4	12.2	39	38.9	13	33.3
				H2	24	Mean	7.113	8.799	12.606	44.467	43.869
						SD	4.550	1.463	1.256	6.728	5.914
					n	n	16	16	16	15	16
										16	16
R1999-0207	pm	0031	L1		1.7	8.36	12.5	45	43.5	15	34.3
R1999-0209	pm	0101	L1		9.4	10.52	14.1	44	40.7	13.4	32.9
R1999-0210	pm	0112	L1		3.9	8.68	12.6	46	44.5	14.5	32.6
R1999-0214	pm	0123	L1		5.4	9.77	13.7	53	41.7	14	33.7
R1999-0216	pm	0130	L1		8.9	8.88	13.2	38	43.7	14.9	34
R1999-0217	pm	0131	L1		4.7	8.68	12.4	52	43.2	14.3	33.1
R1999-0218	pm	0132	L1		7	9.15	13.2	46	42.8	14.4	33.7
R1999-0221	pm	0135	L1		6.5	9.13	13.2	42	42.3	14.5	34.2

Continued

**Table 6-27A.** Continued

Sample ID	Species	FieldID	Site	N	WBC	RBC	HGB	HCT	MCV	MCH	MCHC		
					x 10 <sup>3</sup> /ul	x 10 <sup>6</sup> /ul	g/dl	%	u 3	pg	%		
R1999-0222	pm	0140	L1		4.7	8.14	13.1	43	47.1	16.1	34.2		
R1999-0225	pm	0404	L1		0.7	8.45	11.7	40	42.6	13.8	32.5		
R1999-0203	pm	0012	L1		5.2	11.44	15.7		41.5	13.7	33.1		
R1999-0204	pm	0014	L1		1.6	6.1	9.3	38	44.2	15.2	34.4		
R1999-0205	pm	0023	L1		2.7	9.82	12.3	38	37.9	12.5	33.1		
R1999-0206	pm	0024	L1		3.6	11.77	15.3	57	40.3	13	32.3		
R1999-0208	pm	0042	L1		4.4	9.35	13.2	46	42.6	14.1	33.2		
R1999-0212	pm	0115	L1		5.5	8.95	11.8	43	39.6	13.2	33.3		
R1999-0215	pm	0124	L1		2.7	11.17	15.5	52	42.6	13.9	32.6		
R1999-0219	pm	0133	L1		7.1	9.87	14	50	42.3	14.2	33.5		
R1999-0220	pm	0134	L1		2.6	9.1	12	48	39	13.2	33.8		
R1999-0223	pm	0141	L1		2.4	8.08	10.6	51	39	13.1	33.7		
R1999-0224	pm	0142	L1		13	7.82	12.2	44	46.1	15.6	33.8		
				L1	21	Mean	4.938	9.201	12.933	45.800	42.248	14.124	33.429
						SD	2.978	1.310	1.534	5.415	2.309	0.909	0.629
						n	21	21	21	20	21	21	21
R1999-0242	pm	0012	L2		1.6	5.79	12.9	49	48.1	22.3	46.4		
R1999-0249	pm	0033	L2		3.3	5.67	11	40	47.4	19.4	40.9		
R1999-0253	pm	0054	L2		4.2	9.54	13.5	53	42.2	14.2	33.5		
R1999-0254	pm	0055	L2		1.3	8.42	10.6	32	38.2	12.6	32.9		
R1999-0257	pm	0121	L2		11.4	9.63	13.7	48	42.1	14.2	33.8		
R1999-0261	pm	0134	L2		4	8.2	12.8	50	44.5	15.6	35.1		
R1999-0263	pm	0140	L2		8.2	8.7	12.4	43	40.8	14.3	34.9		
R1999-0264	pm	0141	L2		1.6	8.45	11.8	43	41.9	14	33.3		
R1999-0241	pm	0011	L2		3.2	10.05	12.3	45	37.7	12.2	32.5		
R1999-0245	pm	0023	L2		1.5	10.56	13.4	54	39.7	12.7	32		
R1999-0248	pm	0032	L2		2	11.17	15.2	54	42.1	13.6	32.3		
R1999-0251	pm	0051	L2		5.1	8.53	12.9	44	44.3	15.1	34.1		
R1999-0256	pm	0112	L2		5.6	9.59	13.2	47	40.8	13.8	33.8		
R1999-0259	pm	0131	L2		5.9	9.46	13.5	48	41.5	14.3	34.4		
R1999-0260	pm	0133	L2		3.2	7.47	11.1	39	43.9	14.9	33.8		
R1999-0262	pm	0135	L2		14	8.18	13.5	50	48.4	16.5	34.1		
R1999-0265	pm	0142	L2		3.7	10	13.6	41	40.6	13.6	33.5		
R1999-0266	pm	0143	L2		6	9.21	13.4	53	45.2	14.5	32.2		
R1999-0267	pm	0144	L2		10	5.84	8.4	25	42.5	14.4	33.9		
R1999-0268	pm	0145	L2		12.8	10.32	13.7	48	39.4	13.3	33.7		
				L2	20	Mean	5.430	8.739	12.645	45.300	42.565	14.775	34.555
						SD	3.888	1.571	1.481	7.399	3.050	2.354	3.342
						n	20	20	20	20	20	20	20

Continued

**Table 6-27A.** Continued

Sample ID	Species	FieldID	Site	N	WBC	RBC	HGB	HCT	MCV	MCH	MCHC		
					x 10 <sup>3</sup> /ul	x 10 <sup>6</sup> /ul	g/dl	%	u 3	pg	%		
R1999-0279	pm	0014	M1		8.2	8.8	13.8	56	46.3	15.7	33.9		
R1999-0281	pm	0021	M1		7.2	10.33	14.8	47	43.8	14.3	32.7		
R1999-0285	pm	0044	M1		5.6	8.58	15.3	50	52	17.8	34.3		
R1999-0286	pm	0053	M1		5.5	9.32	13.9	51	43.8	14.9	34.1		
R1999-0300	pm	0221	M1		2.3	10.01	13.9	48	40.9	13.9	34		
R1999-0302	pm	0232	M1		6.1	9.34	13.8	51	42.5	14.8	34.8		
R1999-0303	pm	0235	M1		7.5	8.01	12.7	54	44.9	15.9	35.3		
R1999-0304	pm	0242	M1		3.9	11.4	14.1	47	37.6	12.4	32.9		
R1999-0305	pm	0243	M1		3.6	7.73	12.4	48	48	16	33.4		
R1999-0278	pm	0013	M1		10.6	10.03	13.7	60	40.4	13.7	33.8		
R1999-0282	pm	0024	M1		2.9	8.95	11.6	55	37.8	13	34.3		
R1999-0284	pm	0033	M1		7.5	7.42	12.3		49.6	16.6	33.4		
R1999-0287	pm	0101	M1		4.5	9.28	11.9		42.3	12.8	30.3		
R1999-0293	pm	0132	M1		6.1	9.35	12.5		41.3	13.4	32.4		
R1999-0297	pm	0213	M1		3.5	8.28	11.3	53	39.5	13.6	34.6		
R1999-0298	pm	0214	M1		2.7	9.29	14.1		44.5	15.2	34.1		
				M1	16	Mean	5.481	9.133	13.256	51.667	43.450	14.625	33.644
						SD	2.323	1.022	1.170	4.053	4.063	1.507	1.177
						n	16	16	16	12	16	16	16
R1999-0321	pm	0055	M2		16.5	8.9	13.9	55	44.3	15.6	35.3		
R1999-0323	pm	0102	M2		3	10.39	14.7	49	41.3	14.1	34.3		
R1999-0326	pm	0110	M2		9	10.76	13.5	52	39.1	12.5	32.1		
R1999-0327	pm	0111	M2		4.5	10.08	15.7	52	47.2	15.6	33		
R1999-0330	pm	0114	M2		7.6	10.59	14.6	40	41	13.8	33.6		
R1999-0312	pm	0025	M2		2.7	8.59	12.3	48	49.6	14.3	28.9		
R1999-0316	pm	0045	M2		3.2	8.45	12.6	50	46	14.9	32.4		
R1999-0318	pm	0052	M2		6.1	8.14	12.4	48	45.1	15.2	33.8		
R1999-0319	pm	0053	M2		4.2	9.79	13.1	51	39.5	13.4	33.9		
R1999-0320	pm	0054	M2		4.2	8.54	12.5	50	43.3	14.6	33.8		
R1999-0322	pm	0101	M2		2.9	10.85	14.1	49	39.3	13	33.1		
R1999-0324	pm	0103	M2		5.9	8.87	13.3	58	44.3	15	33.8		
R1999-0325	pm	0105	M2		8.9	8.92	14.9	50	50.1	16.7	33.3		
R1999-0328	pm	0112	M2		3.6	5.51	8.2	24	43	14.9	34.6		
R1999-0329	pm	0113	M2		4.3	11.02	15	56	42.5	13.6	32.1		
				M2	15	Mean	5.773	9.293	13.387	48.800	43.707	14.480	33.200
						SD	3.627	1.444	1.788	8.011	3.477	1.111	1.486
						n	15	15	15	15	15	15	15

Continued

**Table 6-27A.** Continued

Sample ID	Species	FieldID	Site	N	WBC	RBC	HGB	HCT	MCV	MCH	MCHC
					x 10 <sup>3</sup> /ul	x 10 <sup>6</sup> /ul	g/dl	%	u 3	pg	%
R1999-0339	pm	0022	oparts	1	2	9.49	14.6	50	45.2	15.4	34
					Mean	2.0	9.5	14.6	50.0	45.2	15.4
					SD	-	-	-	-	-	-
R1999-0344	pm	0012	smarco	1	n	1	1	1	1	1	1
					Mean	1.8	9.81	15.5	54	47	15.8
					SD	-	-	-	-	-	-
R1999-0348	pm	0032	smarco	1	n	1	1	1	1	1	1
					Mean	8.8	7.82	13.8	50	46.7	17.6
					SD	-	-	-	-	-	-
R1999-0352	pm	0101	smarco	1	n	4.5	10.01	14.2	45	43.1	14.2
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0361	pm	01525	smarco	1	n	3.7	8.23	12.5	52	44.8	15.2
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0346	pm	0015	smarco	1	n	4.5	11.28	16.4	51	45	14.5
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0347	pm	0023	smarco	1	n	1.2	7.79	11.4	46	44.3	14.6
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0349	pm	0034	smarco	1	n	2.8	10.04	13.8	46	42	13.7
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0350	pm	0042	smarco	1	n	4.6	11.89	16.2	50	44.3	13.6
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0351	pm	0053	smarco	1	n	6.4	10.02	14.8	48	43.5	14.8
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0357	pm	0135	smarco	1	n	3.2	10.8	14.8	60	41.5	13.7
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0362	pm	0220	smarco	1	n	8.9	7.36	11.3	37	44.1	15.4
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0364	pm	0014	smarts	1	n	2.5	8.92	12.9	40	43.2	14.5
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0372	pm	0043	smarts	1	n	5.7	9.05	14	47	51.6	15.5
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0375	pm	0104	smarts	1	n	4.8	8.72	13.1	44	43.9	15
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0374	pm	0102	smarts	1	n	6.2	6.68	10.8	44	46	16.2
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0377	pm	0131	smarts	1	n	4.9	9.99	14	42	42.1	14
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0379	pm	0133	smarts	1	n	6.4	8.86	12.2	42.7	42.7	13.8
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0380	pm	0135	smarts	1	n	4.8	10.46	15	36	44.5	14.3
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0381	pm	0142	smarts	1	n	2.8	9.42	12.6	42	42	13.4
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0387	pm	0230	smarts	1	n	2.6	8.42	12.7	40	46.2	15.1
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0389	pm	0251	smarts	1	n	5.4	9.06	13	53	42.6	14.3
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0364	pm	0014	smarts	1	n	4.610	8.958	13.030	43.250	44.480	14.610
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0372	pm	0043	smarts	1	n	1.471	1.006	1.142	5.148	2.915	0.844
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0375	pm	0104	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0374	pm	0102	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0377	pm	0131	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0379	pm	0133	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0380	pm	0135	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0381	pm	0142	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0387	pm	0230	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-
R1999-0389	pm	0251	smarts	1	n	10	10	10	8	10	10
					Mean	-	-	-	-	-	-
					SD	-	-	-	-	-	-

**Table 6-28A.** Hematology. Anaconda Smelter Site, 2000. N is the total number of animals measured while n is the number positive for the endpoint.

SampleID	Species	FieldID	Site	Sex	Site N	WBC		RBC	HBG	HCT	MCV	MCH	MCHC
						x103/ul	x106/ul	g/dl	%	u3	PG	%	
<u>Deer Mouse</u>													
R2000-0008	pm	0022	D-Strip	f		4.2	8.6	12.4	44.0	44.0	14.5	33.0	
R2000-0005	pm	0024	D-Strip	f		5.1	9.7	14.1	47.0	44.1	14.5	32.8	
R2000-0003	pm	0025	D-Strip	f		8.3	7.7	12.4	46.0	48.4	16.0	33.2	
R2000-0004	pm	0035	D-Strip	m		3.4	8.8	13.7	52.0	47.0	15.6	33.2	
R2000-0006	pm	0042	D-Strip	m		3.6	11.4	16.2	50.2	44.1	14.2	32.3	
R2000-0007	pm	0045	D-Strip	m		5.8	9.8	12.9	50.0	41.0	13.2	32.2	
D-Strip					6	Mean	5.1	9.3	13.6	48.2	44.8	14.7	32.8
						SD	1.8	1.3	1.4	3.0	2.6	1.0	0.4
						n	6	6	6	6	6	6	6
R2000-0020	pm	0154	H1	f		4.6	10.5	13.6	48.0	40.0	12.9	32.2	
R2000-0013	pm	0211	H1	f		4.4	9.9	12.9	50.0	38.3	13.0	33.9	
R2000-0017	pm	0214	H1	m		5.5	9.1	11.8	51.0	40.5	13.0	32.0	
R2000-0014	pm	0221	H1	m		3.0	9.8	12.7	52.0	39.9	13.0	32.6	
R2000-0015	pm	0233	H1	f		5.0	7.7	11.0	45.0	42.2	14.4	34.1	
R2000-0018	pm	0234	H1	m		0.9	11.2	13.3	51.0	37.3	11.8	31.7	
R2000-0012	pm	0301	H1	m		2.1	11.6	13.2	52.0	36.6	11.3	31.0	
R2000-0016	pm	0303	H1	f		6.9	7.7	12.6	52.0	47.9	16.5	34.4	
R2000-0021	pm	0315	H1	f		3.8	8.6	13.5	50.0	46.5	15.7	33.8	
R2000-0019	pm	0321	H1	m		1.5	9.0	12.0	48.0	40.6	13.3	32.7	
H1					10	Mean	3.8	9.5	12.7	49.9	41.0	13.5	32.8
						SD	1.9	1.4	0.8	2.3	3.7	1.6	1.2
						n	10	10	10	10	10	10	10
R2000-0028	pm	0112	H2	m		5.4	9.7	12.1	44.0	38.4	12.4	32.4	
R2000-0029	pm	0154	H2	m		5.3	8.0	11.2	35.0	41.4	13.9	33.6	
R2000-0032	pm	0213	H2	m		11.2	5.9	8.1	31.0	39.9	13.8	34.5	
R2000-0030	pm	0220	H2	f		1.1	7.2	9.0	39.0	38.5	12.6	32.6	
R2000-0033	pm	0221	H2	m		3.1	9.6	12.4	50.0	42.8	12.9	30.2	
R2000-0026	pm	0223	H2	f		9.7	9.1	12.3	51.0	41.0	13.5	33.0	
R2000-0025	pm	0225	H2	f		7.5	6.8	9.6	45.0	43.7	14.2	32.4	
R2000-0031	pm	0305	H2	m		3.3	11.2	.	51.0	36.5	11.4	31.3	
R2000-0034	pm	1001	H2	f		3.5	8.9	11.7	48.0	40.3	13.2	32.7	
R2000-0027	pm	1241	H2	f		2.6	8.5	13.1	46.0	46.3	15.5	33.4	
H2					10	Mean	5.3	8.5	11.1	44.0	40.9	13.3	32.6
						SD	3.3	1.6	1.7	6.9	2.9	1.1	1.2
						n	10	10	9	10	10	10	10

Continued

**Table 6-28A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N	WBC		RBC	HBG	HCT	MCV	MCH	MCHC
						x103/ul	x106/ul	g/dl	%	u3	PG	%	
R2000-0053	pm	0155	L1	m		3.5	10.2	13.4	51.0	40.2	13.2	32.8	
R2000-0049	pm	0233	L1	m		2.1	9.7	11.8	46.0	38.0	12.2	32.0	
R2000-0056	pm	0234	L1	f		1.7	9.8	12.6	46.0	39.7	12.8	32.2	
R2000-0048	pm	0235	L1	m		8.0	9.4	11.2	42.0	38.5	12.0	31.1	
R2000-0054	pm	0242	L1	m		3.7	9.6	12.6	43.0	39.5	13.1	33.2	
R2000-0045	pm	0302	L1	f		10.2	9.5	12.4	50.0	40.3	13.0	32.4	
R2000-0051	pm	0304	L1	f		2.3	8.0	11.8	37.0	44.7	14.8	33.2	
R2000-0046	pm	0315	L1	m		2.4	10.4	12.7	45.0	38.9	12.2	31.4	
R2000-0055	pm	0323	L1	f		3.0	9.0	13.8	45.0	46.0	15.4	33.5	
R2000-0050	pm	0325	L1	m		4.6	11.8	14.6	50.0	39.3	12.4	31.5	
R2000-0047	pm	0330	L1	f		12.7	9.2	13.0	52.0	41.7	14.2	34.0	
R2000-0052	pm	0343	L1	m		2.4	9.6	12.0	46.0	39.9	12.6	31.5	
			L1		12	Mean	4.7	9.7	12.7	46.1	40.6	13.2	32.4
						SD	3.6	0.9	0.9	4.3	2.4	1.1	0.9
					n		12	12	12	12	12	12	12
R2000-0061	pm	0204	L2	m		12.1	7.8	11.6	41.0	43.6	14.9	34.0	
R2000-0064	pm	0205	L2	m		2.4	8.6	13.2	44.0	46.5	15.4	33.1	
R2000-0057	pm	0211	L2	m		4.4	7.0	10.8	41.0	45.6	15.5	34.1	
R2000-0059	pm	0212	L2	m		1.6	9.6	12.9	50.0	40.3	13.4	33.2	
R2000-0065	pm	0214	L2	m		1.7	8.4	12.0	42.0	43.2	14.2	33.0	
R2000-0063	pm	0235	L2	m		2.0	9.5	14.1	52.0	44.5	14.8	33.3	
R2000-0067	pm	0240	L2	f		2.5	9.9	13.5	46.0	42.6	13.7	32.1	
R2000-0058	pm	0241	L2	m		3.3	9.5	12.7	43.0	41.4	13.3	32.2	
R2000-0062	pm	0323	L2	f		6.0	9.6	12.4	44.0	40.2	12.9	32.2	
R2000-0060	pm	0331	L2	f		34.5	8.9	17.2	50.2	56.2	19.3	34.3	
R2000-0066	pm	0352	L2	f		4.5	8.9	12.6	49.0	43.5	14.2	32.6	
			L2		11	Mean	6.8	8.9	13.0	45.7	44.3	14.7	33.1
						SD	9.7	0.9	1.7	4.0	4.4	1.8	0.8
					n		11	11	11	11	11	11	11

Continued

**Table 6-28A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N	WBC		RBC	HBG	HCT	MCV	MCH	MCHC	
						x103/ul	x106/ul	g/dl	%	u3	PG	%		
R2000-0079	pm	0304	M1	m		1.9	8.8	12.2	49.0	46.4	13.9	30.0		
R2000-0082	pm	0310	M1	m		2.1	9.2	12.2	47.0	43.5	13.3	30.6		
R2000-0081	pm	0312	M1	m		2.2	9.0	12.4	53.0	48.4	13.8	28.5		
R2000-0078	pm	0313	M1	f		5.5	7.4	11.1	40.0	48.0	15.0	31.2		
R2000-0084	pm	0315	M1	f		6.0	6.7	11.8	48.0	56.8	17.6	30.9		
R2000-0086	pm	0321	M1	f		1.3	9.1	13.0	50.0	46.0	14.3	31.0		
R2000-0083	pm	0323	M1	m		2.6	9.6	12.4	45.0	42.3	13.0	30.7		
R2000-0085	pm	0324	M1	m		1.9	9.0	12.2	47.0	45.6	13.5	29.7		
R2000-0080	pm	0325	M1	m		1.5	9.5	12.5	51.0	45.4	13.1	28.9		
R2000-0087	pm	0351	M1	f		8.9	6.5	11.0	40.0	54.4	17.0	31.3		
R2000-0088	pm	0414	M1	f		3.2	8.3	12.6	40.0	45.2	15.2	33.5		
M1						11	Mean	3.4	8.5	12.1	46.4	47.5	14.5	30.6
							SD	2.4	1.1	0.6	4.6	4.4	1.6	1.3
							n	11	11	11	11	11	11	11
R2000-0089	pm	0131	M2	f		5.0	5.6	8.1	31.0	44.0	14.5	32.9		
R2000-0091	pm	0135	M2	f		1.7	8.5	13.0	45.0	48.2	15.4	31.9		
R2000-0092	pm	0141	M2	f		1.6	9.3	13.6	51.0	44.4	14.7	33.0		
R2000-0093	pm	0142	M2	m		3.9	10.2	12.7	48.0	49.4	12.4	25.2		
R2000-0090	pm	0144	M2	m		5.4	10.7	13.9	50.0	40.3	13.0	32.3		
R2000-0095	pm	0153	M2	m		3.3	9.8	12.9	49.0	42.9	13.2	30.8		
R2000-0094	pm	0204	M2	m		1.6	9.2	11.8	46.0	.	.	28.9		
R2000-0097	pm	0213	M2	m		7.2	8.8	11.6	42.0	47.6	13.3	27.8		
R2000-0096	pm	0215	M2	f		2.4	8.9	12.4	50.0	43.6	13.9	31.9		
R2000-0098	pm	0221	M2	f		6.8	7.8	12.4	50.0	47.8	15.9	33.2		
M2						10	Mean	3.9	8.9	12.2	46.2	45.4	14.0	30.8
							SD	2.1	1.4	1.6	6.0	3.0	1.2	2.7
							n	10	10	10	10	9	9	10
R2000-0117	pm	0234	Smarco	f		3.2	7.7	12.2	40.0	47.7	15.8	33.2		
R2000-0116	pm	0240	Smarco	m		1.9	8.9	12.5	43.0	42.9	14.1	32.9		
R2000-0118	pm	0242	Smarco	m		2.1	6.7	9.5	36.0	42.5	14.3	33.6		
R2000-0119	pm	0251	Smarco	f		4.0	9.6	13.9	47.0	44.8	14.6	32.5		
R2000-0120	pm	0302	Smarco	m		6.2	10.6	15.6	53.0	45.3	14.8	32.6		
R2000-0121	pm	0314	Smarco	m		3.2	8.7	13.1	45.0	43.3	15.0	34.7		
R2000-0122	pm	0324	Smarco	m		2.4	10.1	14.0	46.0	42.4	13.8	32.6		
R2000-0115	pm	0325	Smarco	f		5.2	7.8	11.7	38.0	43.6	15.0	34.3		
R2000-0114	pm	0343	Smarco	f		7.3	7.7	12.4	43.0	47.7	16.2	34.0		
Smarco						9	Mean	3.9	8.6	12.8	43.4	44.5	14.8	33.4
							SD	1.9	1.3	1.7	5.1	2.1	0.8	0.8
							n	9	9	9	9	9	9	9

Continued

**Table 6-28A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N	WBC		RBC	HBG	HCT	MCV	MCH	MCHC
						x103/ul	x106/ul	g/dl	%	u3	PG	%	
R2000-0137	pm	0155	Smarts	f		2.6	10.0	12.8	46.0	38.7	12.8	33.2	
R2000-0135	pm	0321	Smarts	f		8.8	9.1	12.5	42.0	42.3	13.7	32.5	
R2000-0136	pm	0233	Smarts	f		3.7	10.7	13.5	49.0	39.8	12.6	31.7	
R2000-0134	pm	0240	Smarts	m		3.4	8.3	10.8	40.0	40.1	13.0	32.4	
R2000-0131	pm	0302	Smarts	m		10.2	9.0	12.5	44.0	41.0	14.0	34.1	
R2000-0130	pm	0304	Smarts	m		4.2	9.6	13.3	50.0	42.4	13.9	32.8	
R2000-0138	pm	0310	Smarts	f		1.8	8.8	11.7	42.0	40.3	13.4	33.1	
R2000-0133	pm	0312	Smarts	m		0.8	7.8	11.6	49.0	46.1	15.0	32.5	
R2000-0132	pm	0320	Smarts	m		8.4	10.2	14.1	51.0	42.5	13.8	32.4	
R2000-0129	pm	0323	Smarts	f		5.5	7.6	10.9	41.0	42.8	14.3	33.3	
			Smarts		10	Mean	4.9	9.1	12.4	45.4	41.6	13.7	32.8
						SD	3.2	1.0	1.1	4.1	2.1	0.7	0.7
					n		10	10	10	10	10	10	10
<b>Gopher</b>													
R2000-0038	tt	01	High	f		2.0	8.6	12.1	30.0	44.7	14.1	31.6	
R2000-0037	tt	02	High	f		2.7	11.5	14.1	45.0	42.0	12.2	29.1	
R2000-0036	tt	03	High	f		2.7	8.4	11.5	40.0	51.3	13.6	26.6	
R2000-0035	tt	04	High	f		1.9	8.3	10.9	40.0	42.7	13.1	30.6	
R2000-0039	tt	05	High	f		1.5	9.1	12.0	44.0	44.1	13.2	29.9	
R2000-0040	tt	06	High	f		2.2	9.4	13.3	47.0	55.6	14.1	25.4	
R2000-0042	tt	07	High	f		2.5	10.4	14.9	46.5	44.9	14.4	32.0	
R2000-0043	tt	08	High	m		2.7	11.4	14.1	46.0	41.3	12.3	29.9	
R2000-0044	tt	09	High	m		6.5	11.5	13.2	42.0	39.5	11.5	29.1	
R2000-0041	tt	10	High	f		2.4	9.6	13.0	45.0	44.4	13.6	30.6	
			High		10	Mean	2.7	9.8	12.9	42.6	45.1	13.2	29.5
						SD	1.4	1.3	1.3	5.1	4.8	1.0	2.1
					n		10	10	10	10	10	10	10
R2000-0100	tt	01	Medium	m		2.1	9.4	11.9	40.0	41.7	12.6	30.4	
R2000-0099	tt	02	Medium	f		2.4	6.1	8.7	36.0	51.9	14.2	27.4	
R2000-0102	tt	03	Medium	m		2.8	8.2	10.8	39.0	42.6	13.2	31.0	
R2000-0103	tt	04	Medium	m		6.8	10.2	13.9	48.0	43.8	13.6	31.1	
R2000-0106	tt	06	Medium	m		2.0	10.1	13.3	46.0	42.0	13.2	31.4	
R2000-0105	tt	07	Medium	f		10.2	6.6	9.0	28.0	42.2	13.6	32.1	
R2000-0104	tt	08	Medium	m		4.2	10.4	13.7	51.0	42.2	13.2	31.2	
R2000-0108	tt	09	Medium	m		11.2	7.2	10.5	40.0	44.1	14.7	33.2	
R2000-0107	tt	10	Medium	f		5.9	9.0	12.9	45.0	44.4	14.3	32.3	
			Medium		9	Mean	5.3	8.6	11.6	41.4	43.9	13.6	31.1
						SD	3.5	1.6	2.0	7.0	3.2	0.7	1.6
					n		9	9	9	9	9	9	9

Continued

**Table 6-28A.** Continued

SampleID	Species	FieldID	Site	Sex	Site N	WBC		RBC	HBG	HCT	MCV	MCH	MCHC
						x103/ul	x106/ul	g/dl	%	u3	PG	%	
R2000-0068	tt	01	Low	f		4.8	8.2	13.0	44.0	48.8	15.9	32.5	
R2000-0070	tt	02	Low	f		2.0	9.8	13.6	49.0	44.0	13.9	31.6	
R2000-0069	tt	03	Low	m		1.3	9.4	13.9	42.0	45.1	14.7	32.7	
R2000-0071	tt	04	Low	m		2.9	10.9	13.9	45.0	41.3	12.8	31.0	
R2000-0072	tt	05	Low	f		8.0	9.6	12.9	42.0	42.8	13.4	31.3	
R2000-0073	tt	06	Low	f		5.6	8.1	12.5	40.0	48.4	15.5	32.1	
R2000-0074	tt	07	Low	m		6.2	7.4	10.6	32.0	49.6	14.4	29.0	
R2000-0075	tt	08	Low	f		4.1	9.2	13.1	43.0	47.8	14.3	29.8	
R2000-0076	tt	09	Low	f		9.0	8.5	12.6	40.0	49.4	14.8	30.0	
R2000-0077	tt	10	Low	f		4.2	9.0	13.0	43.0	47.4	14.4	30.4	
Low				10	Mean	4.8	9.0	12.9	42.0	46.5	14.4	31.0	
					SD	2.5	1.0	0.9	4.4	3.0	0.9	1.2	
					n	10	10	10	10	10	10	10	





















































**Table 6-31A.** Capture Statistics for Meadow Voles on High, Medium, and Low Sites.  
Anaconda Smelter Site, 1999

Site	Session	Captures		Sex and Age			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
High 1	1	23	16	5	2	9	0
	2	0	0	0	0	0	0
	3	0	0	0	0	0	0
	4	3	2	1	0	1	0
	5	2	2	0	0	1	1
High 2	1	16	9	1	2	3	3
	2	20	9	3	0	1	5
	3	19	11	1	3	6	1
	4	26	17	5	3	9	0
	5	23	13	3	1	6	3
Medium 1	1	4	2	1	0	0	1
	2	4	4	1	0	0	3
	3	6	4	0	0	0	0
	4	5	4	0	0	0	0
	5	3	3	1	0	2	0

Total capture includes recapture  
Total trap nights per session = 400

Continued

**Table 6-31A.** Continued.

Site	Session	Captures		Sex and Age			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
Medium 2	1	3	3	2	1	0	0
	2	11	6	2	2	2	0
	3	12	10	3	2	1	4
	4	13	8	1	0	3	4
	5	6	5	1	0	3	1
Low 1	1	8	5	1	0	3	1
	2	33	16	6	1	9	0
	3	5	4	3	0	1	0
	4	1	1	0	0	1	0
	5	0	0	0	0	0	0
Low 2	1	61	36	14	3	10	9
	2	30	19	10	1	8	0
	3	49	22	9	0	12	1
	4	18	11	3	0	8	0
	5	11	6	3	0	3	0

Total capture includes recapture  
Total trap nights per session = 400

**Table 6-32A.** Capture Statistics for Deer Mice on High, Medium, and Low Sites. Anaconda Smelter Site, 1999.

Site	Session	Captures		Sex and Age			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
High 1	1	54	19	5	7	6	1
	2	55	20	6	4	7	3
	3	85	33	8	9	7	9
	4	67	25	6	6	6	7
	5	57	23	8	5	5	5
High 2	1	30	11	3	1	5	2
	2	37	16	2	2	7	5
	3	33	15	3	3	4	5
	4	41	23	4	5	7	7
	5	30	19	3	5	5	6
Medium 1	1	65	30	8	4	10	8
	2	82	36	8	5	8	15
	3	125	53	9	12	6	26
	4	95	46	6	9	7	24
	5	88	45	5	11	12	17

Total capture includes recapture  
Total trap nights per session = 400

Continued

**Table 6-32A.** Continued .

Site	Session	Captures		Sex and Age			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
Medium 2	1	19	8	0	3	3	2
	2	32	9	2	2	3	2
	3	16	6	0	3	3	0
	4	19	9	3	1	5	0
	5	7	6	2	1	3	0
Low 1	1	29	14	1	6	5	2
	2	29	17	4	3	5	5
	3	36	12	2	4	5	1
	4	33	13	6	3	1	3
	5	44	15	8	1	3	3
Low 2	1	31	10	2	1	6	1
	2	35	13	5	1	7	0
	3	39	15	5	2	7	1
	4	43	22	5	6	5	6
	5	37	16	4	6	4	2

Total capture includes recapture

Total trap nights per session = 400

**Table 6-33A.** Capture Statistics for Meadow Voles on High, Medium, and Low Sites.  
Anaconda Smelter Site, 2000.

Site	Session	Captures		Session			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
High 1	1	0	0	0	0	0	0
	2	2	2	0	0	2	0
	3	0	0	0	0	0	0
	4	0	0	0	0	0	0
	5	0	0	0	0	0	0
High 2	1	0	0	0	0	0	0
	2	1	1	1	0	0	0
	3	14	8	2	2	1	3
	4	7	5	3	0	2	0
	5	4	4	2	1	1	0
Medium 1	1	0	0	0	0	0	0
	2	0	0	0	0	0	0
	3	5	3	2	0	1	0
	4	5	3	0	2	1	0
	5	1	1	0	1	0	0

Continued

Total captures include recaptures

Total trap nights ranged from 500 to 800 per session and totaled 15,700 across sessions

**Table 6-33A.** Continued.

Site	Session	Captures		Session			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
Medium 2	1	0	0	0	0	0	0
	2	0	0	0	0	0	0
	3	0	0	0	0	0	0
	4	1	1	0	0	1	0
	5	1	1	0	0	1	0
Low 1	1	0	0	0	0	0	0
	2	5	2	1	0	1	0
	3	4	2	1	0	1	0
	4	0	0	0	0	0	0
	5	1	1	0	1	0	0
Low 2	1	3	1	0	0	1	0
	2	12	5	2	0	2	1
	3	5	2	1	0	1	0
	4	0	0	0	0	0	0
	5	0	0	0	0	0	0

Total captures include recaptures

Total trap nights ranged from 500 to 800 per session and totaled 15,700 across sessions

**Table 6-34A.** Capture Statistics for Deer Mice on High, Medium, and Low Sites. Anaconda Smelter Site, 2000.

Site	Session	Captures		Sex and Age			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
High 1	1	78	26	4	9	9	4
	2	92	28	9	6	10	3
	3	72	28	5	10	6	7
	4	53	19	5	5	5	4
	5	68	22	3	9	4	6
High 2	1	45	18	2	6	6	4
	2	53	20	4	2	6	8
	3	58	17	5	3	5	4
	4	53	20	5	3	4	8
	5	52	19	4	3	4	8
Medium 1	1	89	29	5	9	7	8
	2	126	38	12	7	9	10
	3	59	28	10	4	9	5
	4	70	33	9	5	10	9
	5	57	22	5	5	6	6

Continued

Total captures include recaptures

Total trap nights ranged from 500 to 800 per session and totaled 15,700 across sessions

**Table 6-34A.** Continued.

Site	Session	Captures		Sex and Age			
		Total	Individuals	Adult Females	Nonadult Females	Adult Males	Nonadult Males
Medium 2	1	26	7	3	0	4	0
	2	24	6	1	0	4	1
	3	45	16	4	1	4	7
	4	32	10	1	2	3	4
	5	35	13	3	2	3	5
Low 1	1	137	43	11	13	5	14
	2	81	26	5	5	9	7
	3	66	24	6	3	11	4
	4	54	23	5	7	8	3
	5	65	19	6	4	6	3
Low 2	1	169	41	13	11	9	8
	2	101	34	14	3	13	4
	3	59	22	9	1	8	4
	4	52	20	5	5	8	2
	5	56	23	4	6	11	2

Total captures include recaptures

Total trap nights ranged from 500 to 800 per session and totaled 15,700 across sessions





**Table 6-37A.** Fractions of Meadow Vole Reproduction Parameters by Session for 1999 Grids.

Grid	Reproductively Active Adult Females by Session					Non-adults by Session				
	1	2	3	4	5	1	2	3	4	5
High 1	$\frac{1}{5}$	$\frac{0}{0}$	$\frac{0}{0}$	$\frac{1}{1}$	$\frac{0}{0}$	$\frac{2}{16}$	$\frac{0}{0}$	$\frac{0}{0}$	$\frac{0}{2}$	$\frac{1}{2}$
High 2	$\frac{0}{1}$	$\frac{0}{3}$	$\frac{1}{1}$	$\frac{2}{5}$	$\frac{1}{3}$	$\frac{5}{9}$	$\frac{5}{9}$	$\frac{4}{11}$	$\frac{3}{17}$	$\frac{4}{13}$
Low 1	$\frac{1}{1}$	$\frac{2}{6}$	$\frac{1}{3}$	$\frac{0}{0}$	$\frac{0}{0}$	$\frac{1}{5}$	$\frac{1}{16}$	$\frac{0}{4}$	$\frac{0}{1}$	$\frac{0}{0}$
Low 2	$\frac{1}{14}$	$\frac{3}{10}$	$\frac{5}{10}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{11}{35}$	$\frac{1}{19}$	$\frac{1}{22}$	$\frac{0}{11}$	$\frac{0}{6}$
Medium 1	$\frac{1}{1}$	$\frac{0}{1}$	$\frac{0}{0}$	$\frac{0}{1}$	$\frac{0}{1}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{4}{4}$	$\frac{1}{4}$	$\frac{0}{3}$
Medium 2	$\frac{0}{2}$	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{0}{1}$	$\frac{1}{1}$	$\frac{1}{3}$	$\frac{2}{6}$	$\frac{6}{10}$	$\frac{4}{8}$	$\frac{1}{5}$
Anaconda Ponds ARTS	$\frac{0}{1}$	$\frac{2}{8}$	$\frac{3}{8}$	$\frac{3}{12}$	$\frac{3}{5}$	$\frac{0}{1}$	$\frac{10}{20}$	$\frac{3}{12}$	$\frac{3}{19}$	$\frac{4}{10}$
Opportunity Ponds ARTS	$\frac{0}{0}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{0}{1}$	$\frac{0}{1}$	$\frac{2}{4}$	$\frac{0}{4}$	$\frac{0}{4}$	$\frac{2}{4}$	$\frac{3}{4}$
Smelter Hill ARCO	$\frac{0}{0}$	$\frac{1}{3}$	$\frac{2}{7}$	$\frac{1}{7}$	$\frac{2}{9}$	$\frac{0}{0}$	$\frac{1}{12}$	$\frac{0}{17}$	$\frac{2}{16}$	$\frac{0}{17}$
Smelter Hill ARTS	$\frac{1}{2}$	$\frac{3}{5}$	$\frac{3}{11}$	$\frac{1}{10}$	$\frac{2}{7}$	$\frac{1}{4}$	$\frac{4}{14}$	$\frac{1}{21}$	$\frac{0}{15}$	$\frac{1}{10}$

Sessions 1 to 5 consisted of 4-6 consecutive days of trapping separated by 14–15 days from May 25 to August 21, 1999.

For reproductively active adult females; numerator = number of reproductively active adult females, denominator = total number of adult females captured

For Non-adults; numerator = number of non-adults, denominator = total number of deer mice captured

**Table 6-38A.** Fractions of Deer Mouse Reproduction Parameters by Session for 1999 Grids.

Grid	Reproductively Active Adult Females by Session					Non-adults by Session				
	1	2	3	4	5	1	2	3	4	5
High 1	$\frac{4}{5}$	$\frac{5}{6}$	$\frac{7}{8}$	$\frac{3}{6}$	$\frac{8}{8}$	$\frac{8}{19}$	$\frac{7}{20}$	$\frac{18}{33}$	$\frac{13}{25}$	$\frac{10}{23}$
High 2	$\frac{2}{3}$	$\frac{2}{2}$	$\frac{3}{3}$	$\frac{4}{4}$	$\frac{2}{3}$	$\frac{3}{11}$	$\frac{7}{16}$	$\frac{8}{15}$	$\frac{11}{22}$	$\frac{11}{19}$
Low 1	$\frac{1}{1}$	$\frac{2}{4}$	$\frac{2}{2}$	$\frac{4}{6}$	$\frac{8}{8}$	$\frac{8}{14}$	$\frac{8}{17}$	$\frac{5}{12}$	$\frac{6}{13}$	$\frac{4}{15}$
Low 2	$\frac{0}{2}$	$\frac{4}{5}$	$\frac{3}{5}$	$\frac{4}{5}$	$\frac{4}{4}$	$\frac{2}{10}$	$\frac{1}{13}$	$\frac{3}{15}$	$\frac{12}{22}$	$\frac{8}{16}$
Medium 1	$\frac{6}{8}$	$\frac{7}{8}$	$\frac{3}{9}$	$\frac{5}{6}$	$\frac{4}{5}$	$\frac{12}{30}$	$\frac{20}{36}$	$\frac{38}{53}$	$\frac{33}{46}$	$\frac{28}{45}$
Medium 2	$\frac{0}{0}$	$\frac{0}{2}$	$\frac{0}{0}$	$\frac{3}{3}$	$\frac{2}{2}$	$\frac{5}{8}$	$\frac{4}{9}$	$\frac{3}{6}$	$\frac{1}{9}$	$\frac{1}{6}$
Anaconda Ponds ARTS	$\frac{0}{3}$	$\frac{4}{6}$	$\frac{2}{3}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{12}{18}$	$\frac{7}{16}$	$\frac{12}{16}$	$\frac{11}{13}$	$\frac{13}{14}$
Opportunity Ponds ARTS	$\frac{0}{0}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{0}{0}$	$\frac{0}{2}$	$\frac{1}{2}$	$\frac{0}{3}$	$\frac{2}{5}$	$\frac{1}{2}$	$\frac{0}{0}$
Smelter Hill ARCO	$\frac{0}{2}$	$\frac{5}{7}$	$\frac{10}{15}$	$\frac{10}{17}$	$\frac{7}{9}$	$\frac{8}{22}$	$\frac{3}{25}$	$\frac{4}{29}$	$\frac{6}{31}$	$\frac{8}{25}$
Smelter Hill ARTS	$\frac{2}{10}$	$\frac{11}{20}$	$\frac{8}{21}$	$\frac{16}{25}$	$\frac{12}{13}$	$\frac{10}{30}$	$\frac{10}{48}$	$\frac{11}{45}$	$\frac{6}{44}$	$\frac{9}{27}$

Sessions 1 to 5 consisted of 4-6 consecutive days of trapping separated by 14–15 days from May 25 to August 21, 1999.

For reproductively active adult females; numerator = number of reproductively active adult females, denominator = total number of adult females captured

For Non-adults; numerator = number of non-adults, denominator = total number of deer mice captured

**Table 6-39A.** Fractions of Meadow Vole Reproduction Parameters by Session for 2000 Grids.

Grid	Reproductively Active Adult Females by Session					Non-adults by Session				
	1	2	3	4	5	1	2	3	4	5
High 1	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 0	0 0	0 0
High 2	0 0	0 1	1 2	0 3	0 2	0 0	0 1	5 8	0 5	1 4
Low 1	0 0	0 1	0 1	0 0	0 0	0 0	0 2	0 2	0 0	1 1
Low 2	0 0	0 2	0 1	0 0	0 0	0 1	1 5	0 2	0 0	0 0
Medium 1	0 0	0 0	0 2	0 0	0 0	0 0	0 0	0 3	2 3	1 1
Medium 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 1
Drag Strip ARTS	0 1	0 1	0 0	0 2	0 2	4 5	10 13	2 3	0 3	0 3
Smelter Hill ARCO	0 2	3 6	3 4	2 3	1 4	0 2	9 22	8 20	2 7	1 7
Smelter Hill ARTS	0 0	0 2	0 1	0 2	0 1	1 2	0 4	0 2	0 4	0 2

Sessions 1 to 5 consisted of 5-8 consecutive days of trapping separated by 11–14 days from May 22 to August 25, 2000.

For reproductively active adult females; numerator = number of reproductively active adult females, denominator = total number of adult females captured

For Non-adults; numerator = number of non-adults, denominator = total number of deer mice captured

**Table 6-40A.** Fractions of Deer Mouse Reproduction Parameters by Session for 2000 Grids

Grid	Reproductively Active Adult Females by Session					Non-adults by Session				
	1	2	3	4	5	1	2	3	4	5
High 1	$\frac{4}{4}$	$\frac{6}{9}$	$\frac{3}{5}$	$\frac{4}{5}$	$\frac{2}{3}$	$\frac{13}{26}$	$\frac{9}{28}$	$\frac{16}{27}$	$\frac{9}{19}$	$\frac{15}{22}$
High 2	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{5}$	$\frac{4}{5}$	$\frac{3}{4}$	$\frac{10}{18}$	$\frac{10}{20}$	$\frac{7}{17}$	$\frac{11}{20}$	$\frac{11}{19}$
Low 1	$\frac{10}{11}$	$\frac{3}{5}$	$\frac{4}{6}$	$\frac{2}{5}$	$\frac{5}{6}$	$\frac{27}{43}$	$\frac{12}{26}$	$\frac{7}{24}$	$\frac{10}{23}$	$\frac{7}{19}$
Low 2	$\frac{9}{13}$	$\frac{8}{14}$	$\frac{6}{9}$	$\frac{2}{5}$	$\frac{1}{4}$	$\frac{19}{41}$	$\frac{7}{34}$	$\frac{5}{22}$	$\frac{7}{20}$	$\frac{8}{23}$
Medium 1	$\frac{4}{5}$	$\frac{9}{12}$	$\frac{4}{10}$	$\frac{6}{9}$	$\frac{3}{5}$	$\frac{17}{29}$	$\frac{17}{38}$	$\frac{9}{28}$	$\frac{13}{32}$	$\frac{11}{22}$
Medium 2	$\frac{1}{3}$	$\frac{0}{1}$	$\frac{2}{4}$	$\frac{1}{1}$	$\frac{2}{3}$	$\frac{0}{7}$	$\frac{1}{6}$	$\frac{8}{16}$	$\frac{6}{10}$	$\frac{7}{13}$
Drag Strip ARTS	$\frac{1}{1}$	$\frac{1}{2}$	$\frac{2}{4}$	$\frac{2}{3}$	$\frac{0}{1}$	$\frac{6}{8}$	$\frac{1}{4}$	$\frac{3}{10}$	$\frac{5}{10}$	$\frac{1}{2}$
Smelter Hill ARCO	$\frac{7}{7}$	$\frac{7}{11}$	$\frac{11}{16}$	$\frac{8}{12}$	$\frac{5}{5}$	$\frac{12}{23}$	$\frac{8}{30}$	$\frac{10}{36}$	$\frac{18}{38}$	$\frac{12}{22}$
Smelter Hill ARTS	$\frac{6}{8}$	$\frac{8}{13}$	$\frac{10}{15}$	$\frac{8}{12}$	$\frac{5}{9}$	$\frac{10}{25}$	$\frac{10}{32}$	$\frac{17}{45}$	$\frac{16}{38}$	$\frac{15}{30}$

Sessions 1 to 5 consisted of 5-8 consecutive days of trapping separated by 11–14 days from May 22 to August 25, 2000.

For reproductively active adult females; numerator = number of reproductively active adult females, denominator = total number of adult females captured

For Non-adults; numerator = number of non-adults, denominator = total number of deer mice captured









**Table 6-4A:** Habitat Comparison Between Remediated Grids, Anaconda Smelter Site, 1999

Grid	Cover*	SE	Duff	SE	Grass	SE	Forbs	SE	Bareground	SE	Rocks	SE	Moss	SE	Gravel	SE	Dead Woody	SE	Fungi	SE
S.H. ARCO	86.5	5.8	11.2	17	85.5	6	1.1	1	3.3	1.6	7.7	2.3	13.7	5.1	45.6	8.2	0.5	0.2	0	0
S.H. ARTS	66.7	11	3.8	1.2	66.2	11	2	0.7	4.7	2.9	4.1	1.3	3	3	28.7	7.5	0.2	0.1	0	0
OPP. ARTS	97.5	1.3	78	6.7	97.5	1.3	0	0	2.7	1.3	0	0	3.7	1.9	0	0	0	0	0.1	0.1
ANAC.ARTS	59.6	11	40.5	10	55.6	10	4.5	2.1	33.5	11	0	0	0	0	0.6	0.2	0.8	0.5	0	0

Note: All parameters expressed as a mean percentage determined from Daubenmire plots (n = 10)

\*total vegetative cover

**Table 6-5A:** Habitat Comparison Between Remediated Grids, Anaconda Smelter Site, 2000.

Grid	Cover*	SE	Duff	SE	Grass	SE	Forbs	SE	Bare ground	SE	Rocks	SE	Moss	SE	Gravel	SE	Dead Woody	SE	Fungi	SE
S.H. ARCO	81.8	7.3	37.6	7.6	66	8.8	0.7	0.5	3.1	1.2	8.6	3.8	12.8	4.9	40	9.1	0.9	0.1	0	0
S.H. ARTS	75.5	5.2	27	6.7	64	5.4	0.6	0.2	3.4	1.9	5.3	2.8	0.3	0.2	41	7.5	0.2	0.1	0	0
D.S. ARTS	52	5.8	26.1	7.4	23.5	3.7	4	1.5	5.3	1.6	5.6	1.3	0	0.0	37	8.5	9.4	3.2	0	0

Note: All parameters expressed as a mean percentage determined from Daubenmire plots (n = 10)

\*total vegetative cover

**Table 6-6A:** Habitat Comparison Between Naturally Vegetated Grids. Anaconda Smelter Site, 1999.

Grid	Cover*	SE	Duff	SE	Grass	SE	Forbs	SE	Dead Woody	SE	Bare ground	SE	Rocks	SE	Moss	SE	Gravel	SE	Clumps	SE	Lichen	SE
Low 1	92.5	2	2.8	2	90	3	7	2	6.1	2	5.7	2	0	0	24.6	7	0	0	0	0	20.8	7
Low 2	85.5	5	27	10	72	6	0.5	1	8.6	5	2.4	1	0.5	1	27.5	5	4	4	0	0	15.3	6
Medium 1	50.5	7	20	5	37.2	4	7.7	3	0.1	0	10.6	4	6.2	2	0.7	0	30.6	7	7.2	2	0	0
Medium 2	65.5	10	36	10	55.4	11	9.5	3	0.2	0	33.1	11	0	0	0	0	1.2	0	12.2	9	0	0
High 1	98.5	1	62	10	74.5	7	15.6	8	1	0	0.3	0	0.6	0	6.9	3	0.4	0	17.5	4	0	0
High 2	81	6	17	3	75	7	0.1	0	0.1	0	1.6	1	1	1	25.2	8	30.1	9	7.5	3	0	0

Note: all parameters expressed as a mean percentage determined from Daubenmire plots (n = 10)

\*total vegetative cover

**Table 6-7A:** Habitat Comparison Between Naturally Vegetated Grids. Anaconda Smelter Site, 2000.

Grid	Cover*	SE	Duff	SE	Grass	SE	Forbs	SE	Dead Woody	SE	Bare ground	SE	Rocks	SE	Moss	SE	Gravel	SE	Clumps	SE	Lichen	SE
Low 1	80.5	4.0	29	8.1	48.5	6.0	4.6	1.9	7.4	3.9	13.5	2.6	0.5	0.5	1.6	0.6	0.7	0.5	0	0	10.7	9.4
Low 2	63	9.3	35.7	10.4	38.5	6.5	0.8	0.5	3.5	1.9	20.8	8.0	0	0	9.9	4.0	7.1	4.1	0	0	4.1	4.2
Medium 1	56	7.5	25.5	7.0	38	5.9	6.7	2.9	0.2	0.1	7	1.9	10.6	4.8	3.8	3.5	34.5	9.1	3	2.1	0	0
Medium 2	63.5	5.5	16.5	2.9	44.5	4.0	9.4	2.6	0.4	0.2	33.5	4.9	0	0	0.4	0.2	3	1.0	2.2	1.3	0	0
High 1	87.5	6.0	71.5	8.6	37	8.6	2.7	1.7	1.1	0.5	1.9	1.0	3.5	2.6	3.7	1.6	7.2	5.0	18.6	5.2	0	0
High 2	84	6.8	29.2	8.7	64	8.3	2.6	1.3	0.2	0.1	0.9	0.1	0.1	0.5	13.7	4.2	17.3	8.1	11.6	7.3	0	0

Note: all parameters expressed as a mean percentage determined from Daubenmire plots (n = 10)

\*total vegetative cover

**Table 6-29A.** Tissue Weights. Anaconda Smelter Site, 1999. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Species / Site	Field Site ID	Sex Site	N	Body	Liver	Kidneys	Adrenals	Spleen	Pancreas	Right	Left	Testes	Uterus	Thymus	Heart	Lungs	Brain	
					Mass	Weight	Weight	Weight	Weight	Weight	Testis	Testis	Total Weight	Weight	Weight	Weight	Weight		
					(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)		
R1999-0007	gopher	1	low	f	52.01	2.4845	0.7375		0.0453	0.1775				0.0246		0.3157	0.34	1.1768	
R1999-0008	gopher	2	low	m	61.7	2.6367	0.8065		0.0607	0.0584	0.036	0.0347	0.0707		0.0365	0.2698	0.3755	1.1646	
R1999-0009	gopher	3	low	f	64.09	2.398	0.7577		0.1587	0.1005				0.1568	0.025	0.3294	0.406	1.1579	
R1999-0010	gopher	4	low	m	76.38	3.6278	0.8655		0.6611	0.1014	0.0476	0.0483	0.0959		0.068	0.5041	0.4669	1.1065	
R1999-0011	gopher	5	low	m	56.8	2.8379	0.6471		0.2358	0.0441	0.0406	0.0384	0.079		0.0713	0.365	0.3451	1.0989	
R1999-0012	gopher	6	low	m	49.68	2.6288	0.7772		0.1186	0.1226	0.0362	0.0372	0.0734		0.0669	0.3549	0.4133	0.9173	
Low				6	Mean	60.1	2.769	0.765	-	0.213	0.101	0.040	0.040	0.080	0.091	0.054	0.356	0.391	1.104
					SD	9.7	0.447	0.073	-	0.230	0.048	0.005	0.006	0.011	0.093	0.021	0.080	0.048	0.097
				n	6	6	6	0	6	6	4	4	4	2	5	6	6	6	
R1999-0013	gopher	1	medium	f	53.66	3.374	0.6438	0.0146	0.0626	0.0997				0.037	0.0454	0.3073	0.3962	1.087	
R1999-0014	gopher	2	medium	m	70.43	2.7179	0.7288	0.0339	0.0739	0.3295	0.1425	0.1438	0.2863			0.366	0.5123	1.153	
R1999-0015	gopher	3	medium	m	61.03	2.4959	0.6468	0.0108	0.0664	0.3069	0.0321	0.0332	0.0653		0.0571	0.2528	0.3624	1.0738	
R1999-0016	gopher	4	medium	f	76.03	3.3738	0.7306		0.1415	0.0425				0.1192	0.0297	0.4216	0.4978	1.1438	
R1999-0017	gopher	5	medium	m	64.24	2.7825	0.6321		0.1542	0.2793	0.0392	0.0351	0.0743		0.0892	0.3319	0.4237	1.1216	
R1999-0018	gopher	6	medium	f	51.48	1.9177	0.5519		0.0753	0.2798				0.0212	0.0736	0.2854	0.3492	1.0886	
R1999-0019	gopher	7	medium	f	57.54	3.0251	0.6234		0.2241	0.0839				0.0584	0.0478	0.3515	0.4168	1.0336	
Medium				7	Mean	62.1	2.812	0.651	0.020	0.114	0.203	0.071	0.071	0.142	0.059	0.057	0.331	0.423	1.100
					SD	8.9	0.514	0.062	0.012	0.061	0.122	0.062	0.063	0.125	0.043	0.021	0.056	0.063	0.042
				n	7	7	7	3	7	7	3	3	3	4	6	7	7	7	

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Total Testes Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)			
R1999-0001	gopher	1	high	f	77.2	3.1603	1.0648		0.118	0.3157				0.1332	0.0353	0.3799	0.4614	1.1525			
R1999-0002	gopher	2	high	f	73.2	3.8026	0.8578		0.1406					0.1246	0.0306	0.4416	0.4626	1.1249			
R1999-0003	gopher	3	high	f	52.76	2.2362	0.6897		0.1108	0.124				0.0173	0.04	0.3351	0.7337	1.0152			
R1999-0004	gopher	4	high	m	43.54	1.8442	0.624		0.1132	0.2126	0.0242	0.0232	0.0474		0.0562	0.2411	0.3289	1.0974			
R1999-0005	gopher	5	high	m	63.83	3.4671	1.0681		0.0988	0.0741	0.0424	0.039	0.0814		0.0422	0.3483	0.5326	1.1135			
R1999-0006	gopher	6	high	f	78.79	3.5357	0.8633		0.8013	0.0469				0.0436	0.0577	0.4419	0.4583	1.0831			
					Mean	64.9	3.008	0.861	-	0.230	0.155	0.033	0.031	0.064	0.080	0.044	0.365	0.496	1.098		
					High	6	SD	14.3	0.787	0.184	-	0.280	0.110	0.013	0.011	0.024	0.058	0.011	0.076	0.134	0.047
						n		6	6	6	0	6	5	2	2	2	4	6	6	6	
R1999-0044	mp	41	L2	m	27.5	1.3615	0.3033	0.0031	0.1027	0.1022	0.3605	0.2722	0.6327		0.0182	0.1626	0.1603	0.5531			
R1999-0045	mp	110	L2	f	31.02	1.7901	0.4524	0.0374	0.0884	0.1948				0.7647		0.1121	0.2744	0.7238			
R1999-0043	mp	313	L2	m	33.32	1.3535	0.3764	0.0037	0.0478	0.1093	0.1819	0.199	0.3809		0.0282	0.2601	0.2962	0.7347			
					Low 2	3	Mean	30.6	1.502	0.377	0.015	0.080	0.135	0.271	0.236	0.507	0.765	0.023	0.178	0.244	0.671
						SD		2.9	0.250	0.075	0.020	0.028	0.052	0.126	0.052	0.178	-	0.007	0.075	0.073	0.102
						n		3	3	3	3	3	3	2	2	2	1	2	3	3	

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Total Testes Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)	
R1999-0046	mp	12 M1	f		24.52	1.4356	0.3333	0.0258	0.1006	0.1097				0.1737	0.0453	0.1789	0.3426	0.6231	
R1999-0047	mp	32 M1	f		33.83	2.538	0.3432	0.0235	0.1063	0.1207				0.4004		0.1976		0.6579	
		Medium 1		2	Mean	29.2	1.987	0.338	0.025	0.103	0.115	-	-	-	0.287	0.045	0.188	0.343	0.641
					SD	6.6	0.780	0.007	0.002	0.004	0.008	-	-	-	0.160	-	0.013	-	0.025
					n	2	2	2	2	2	2	0	0	0	2	1	2	1	2
R1999-0052	mp	32 M2	f		28.93	1.4335	0.307	0.0324	0.1381	0.2942				0.9959		0.1616	0.224	0.6895	
R1999-0054	mp	35 M2	m		28.41	1.9187	0.336	0.0059	0.1195	0.1021	0.1686	0.177	0.3456		0.0271	0.2033	0.2566	0.5671	
R1999-0055	mp	41 M2	f		22.76	1.5833	0.3215	0.0153	0.2431	0.151				0.0706	0.003	0.1672	0.1732	0.4985	
R1999-0056	mp	51 M2	m		17	1.1431	0.2361	0.0053	0.0713	0.0554	0.0059	0.003	0.0089		0.0243	0.1408	0.213	0.4971	
		Medium 2		3	Mean	24.3	1.520	0.300	0.015	0.143	0.151	0.087	0.090	0.177	0.533	0.018	0.168	0.217	0.563
					SD	5.6	0.323	0.044	0.013	0.072	0.103	0.115	0.123	0.238	0.654	0.013	0.026	0.034	0.090
					n	4	4	4	4	4	4	2	2	2	2	3	4	4	4
R1999-0029	mp	21 H1	f		21	1.4079	0.2836	0.0063	0.0598	0.1648				0.0805	0.028	0.1386	0.2053	0.5748	
R1999-0030	mp	22 H1	f		24.2	1.5201	0.3556	0.0225	0.0744	0.1034				0.1227	0.0394	0.1428	0.2121	0.6138	
		High 1		2	Mean	22.6	1.464	0.320	0.014	0.067	0.134	-	-	-	0.102	0.034	0.141	0.209	0.594
					SD	2.3	0.079	0.051	0.011	0.010	0.043	-	-	-	0.030	0.008	0.003	0.005	0.028
					n	2	2	2	2	2	2	0	0	0	2	2	2	2	

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Total Testes Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)		
R1999-0032	mp	24 H2	m		26.15	1.3553	0.3081	0.0085	0.0558	0.2213	0.1597	0.166	0.3257		0.0127	0.1652	0.2052	0.5887		
R1999-0033	mp	25 H2	m		38.36	2.1715	0.5611	0.0046	0.4711	0.1512	0.1854	0.1841	0.3695		0.0047	0.3086	0.3331	0.6247		
R1999-0034	mp	41 H2	m		32.15	1.7292	0.3541	0.0072	0.122	0.1165	0.1964	0.1842	0.3806			0.1835	0.2699	0.6054		
R1999-0035	mp	42 H2	f		35.76	2.6475	0.4458	0.0392	0.4417	0.1115					0.1674	0.0144	0.2578	0.3391	0.573	
R1999-0036	mp	44 H2	f		27.3	2.0179	0.3293	0.0362	0.1169	0.2077						0.1638	0.2301	0.5972		
R1999-0037	mp	51 H2	f		28.09	1.5916	0.2622	0.0529	0.1055	0.1092					1.2419	0.0238	0.1785	0.1675	0.5005	
R1999-0038	mp	53 H2	m		27.42	1.1037	0.2765	0.009	0.062	0.0845	0.1365	0.1354	0.2719			0.1923	0.2261	0.6539		
R1999-0039	mp	55 H2	f		30.2	1.6221	0.3949	0.0294	0.0504	0.0549					0.2115	0.0316	0.2121	0.3457	0.6976	
R1999-0040	mp	102 H2	m		21.71	1.4978	0.4686	0.0082	0.0599	0.0719	0.0079	0.006	0.0139			0.0479	0.2167	0.3343	0.7006	
R1999-0041	mp	103 H2	m		18.15	1.1799	0.3153									0.0129	0.1849	0.2042	0.6222	
R1999-0042	mp	120 H2	m		25.51	1.4838	0.2917	0.0035	0.1339	0.0844	0.147	0.1507	0.2977							
High 2					11	Mean	28.3	1.673	0.364	0.020	0.162	0.121	0.139	0.138	0.277	0.540	0.021	0.206	0.266	0.616
						SD	5.8	0.454	0.094	0.018	0.158	0.056	0.068	0.067	0.135	0.608	0.015	0.046	0.067	0.059
						n	11	11	11	10	10	10	6	6	6	3	7	10	10	10

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Total Testes Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)	
R1999-0021	mp	21	anarts	f	26.68	1.5992	0.3407	0.0225	0.16	0.0859				0.1595	0.0347	0.1913	0.3259	0.5369	
R1999-0022	mp	22	anarts	f	31.41	2.2142	0.4192	0.0256	0.2082	0.1528				0.08	0.0532	0.1683	0.3404	0.652	
R1999-0023	mp	31	anarts	m	22.84	1.3356	0.3353	0.0061	0.0442	0.1132	0.0407	0.0393	0.08		0.052	0.1546	0.2243	0.5969	
R1999-0024	mp	43	anarts	f	21.09	1.1471	0.2572	0.0125	0.0371	0.0533				0.0221	0.0336	0.1329	0.1829	0.5085	
R1999-0025	mp	45	anarts	f	27.25	1.7392	0.3683	0.0024	0.0656	0.1545				0.0035	0.1437	0.4026	0.6122		
R1999-0026	mp	55	anarts	f	21.01	1.2604	0.2644	0.0111	0.0249	0.0717				0.0299	0.0251	0.1551	0.1902	0.5459	
R1999-0027	mp	1001	anarts	f	25.12	1.3401	0.3124	0.017	0.1534	0.1161				0.1373	0.0229	0.2228	0.3322	0.5889	
R1999-0028	mp	1002	anarts	m	22.53	1.2935	0.3023	0.006	0.07978	0.1307	0.0333	0.0317	0.065		0.0217	0.1473	0.2089	0.5673	
Anaconda ARTS				8	Mean	24.7	1.491	0.325	0.013	0.097	0.110	0.037	0.036	0.073	0.086	0.031	0.165	0.276	0.576
					SD	3.6	0.349	0.054	0.008	0.068	0.037	0.005	0.005	0.011	0.062	0.016	0.029	0.084	0.046
					n	8	8	8	8	8	8	2	2	2	5	8	8	8	8
R1999-0057	mp	23	oparts	m	24.72	0.1612	0.3296	0.0072	0.0345	0.0985	0.0721	0.0725	0.1446			0.148	0.1984	0.6231	
R1999-0058	mp	24	oparts	m	17.03	0.8541	0.1786	0.0062	0.0328	0.0881	0.0066	0.0034	0.01			0.0246	0.101	0.1633	0.5735
R1999-0059	mp	31	oparts	f	17.3	0.9378	0.2079	0.0042	0.047	0.109				0.0011	0.0481	0.1077	0.1862	0.5556	
R1999-0060	mp	4425	oparts	m	15.24	0.6633	0.2537	0.0011	0.0262	0.0238	0.0105	0.004	0.0145			0.0188	0.1221	0.1903	0.5504
Opportunity ARTS				4	Mean	18.6	0.654	0.242	0.005	0.035	0.080	0.030	0.027	0.056	0.001	0.031	0.120	0.185	0.576
					SD	4.2	0.348	0.066	0.003	0.009	0.038	0.037	0.040	0.076	-	0.016	0.021	0.015	0.033
					n	4	4	4	4	4	4	3	3	3	1	3	4	4	4

Continued

**Table 6-29A.** Continued

Sample	Species / Site	Field Site	Sex	Site		Body Mass	Liver Weight	Kidneys Weight	Adrenals Weight	Spleen Weight	Pancreas Weight	Right Testis	Left Testis	Testes Total Weight	Uterus Weight	Thymus Weight	Heart Weight	Lungs Weight	Brain Weight	
	ID	ID		N		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
R1999-0061	mp	11	smarco	f		51.76	2.3215	0.3495	0.0503	0.2546	0.1374				2.1302	0.0133	0.185	0.2206	0.6108	
R1999-0069	mp	35	smarco	f		40.14	1.6321	0.4264	0.0474	0.0921	0.1568						0.164	0.2269	0.5091	
R1999-0074	mp	43	smarco	m		22.94	1.2306	0.25	0.0058	0.1024	0.106	0.1269	0.1252		0.2521			0.151	0.2822	0.6907
R1999-0075	mp	52	smarco	m		35.67	1.9284	0.4751	0.0204	0.253	0.2008	0.2098	0.2257		0.4355			0.1969	0.2327	0.6061
R1999-0076	mp	55	smarco	m		28.57	1.4611	0.3527	0.0046	0.0751	0.1055	0.2106	0.211		0.4216			0.1974	0.2125	0.6293
R1999-0077	mp	103	smarco	f		26.7	1.6362	0.3166	0.0527	0.0826	0.1855				0.5247	0.0065	0.174	0.2593	0.6253	
R1999-0082	mp	105	smarco	f		29.95	1.6225	0.3559	0.0359	0.122	0.1208				1.5575	0.0365	0.1716	0.2001	0.6386	
R1999-0087	mp	106	smarco	m		22.87	0.9984	0.361		0.0934	0.1151	0.2411	0.0224		0.2635			0.1891	0.2581	0.5448
R1999-0088	mp	111	smarco	f		37.89	1.5541	0.3526	0.0401	0.0638	0.2519				1.3729			0.1514	0.2289	0.6372
			Smelter Hill	9	Mean	32.9	1.598	0.360	0.032	0.127	0.153	0.197	0.146		0.343	1.396	0.019	0.176	0.236	0.610
			ARCO		SD	9.4	0.379	0.063	0.019	0.074	0.050	0.049	0.094		0.099	0.665	0.016	0.018	0.026	0.054
					n	9	9	9	8	9	9	4	4		4	4	3	9	9	9
R1999-0094	mp	32	smarts	f		34.79	1.606	0.415	0.0551	0.1579	0.2401				0.1221	0.0458	0.2223	0.2853	0.6581	
R1999-0095	mp	34	smarts	f		44.56	2.3747	0.5048	0.0656	0.3317	0.273				1.293		0.2949	0.307	0.6118	
R1999-0099	mp	44	smarts	f		41.4	1.9614	0.3746	0.0392	0.0797	0.15				1.869	0.0274	0.1966	0.2251	0.63	
R1999-0105	mp	55	smarts	m		20.21	0.8582	0.2989	0.0223	0.0524	0.0878	0.0075	0.0063		0.0138		0.0288	0.1235	0.2052	0.6948
R1999-0106	mp	113	smarts	f		35.47	2.2966	0.4322	0.0506	0.1318	0.2191				0.1419		0.2048	0.243	0.604	
R1999-0107	mp	114	smarts	m		25.91	1.2417	0.3606												
R1999-0108	mp	120	smarts	f		33.3	1.7879	0.4264	0.0481	0.1723	0.2374				0.0328	0.2013	0.2693	0.6628		
R1999-0109	mp	123	smarts	m		41.72	1.9663	0.5153	0.0148	0.2177	0.3743	0.1058	0.2379		0.3437		0.282	0.3463	0.6964	
R1999-0110	mp	131	smarts	m		27.54	1.961	0.3218	0.0063	0.0912	0.0901	0.1398	0.1462		0.286		0.1527	0.2794	0.6399	
R1999-0111	mp	133	smarts	m		53.39	2.495	0.6426	0.0157	0.5659	0.1502	0.6073	0.6016		1.2089		0.298	0.4739	0.7231	
R1999-0113	mp	135	smarts	m		29.3	1.4985	0.375	0.0081	0.16	0.1742	0.1691	0.1631		0.3322		0.1729	0.2452	0.5979	

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site ID	Field Site ID	Sex Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)			
R1999-0114	mp	140	smarts m	21.73	1.1793	0.2626														
R1999-0115	mp	141	smarts m	35.24	1.482	0.4721														
R1999-0118	mp	1124	smarts m	20.13	0.9294	0.2605														
				Smelter Hill	14	Mean	33.2	1.688	0.404	0.033	0.196	0.200	0.206	0.231	0.437	0.857	0.034	0.215	0.288	0.652
				ARTS		SD	9.8	0.522	0.107	0.022	0.152	0.088	0.233	0.223	0.452	0.869	0.008	0.060	0.077	0.043
					n		14	14	14	10	10	10	5	5	5	4	4	10	10	10
R1999-0203	pm	12	L1 m	18.05	1.3183	0.2835	0.0099	0.0952	0.0637	0.1769	0.1841	0.361			0.0205	0.1565	0.1788	0.6253		
R1999-0204	pm	14	L1 m	15.32	0.7457	0.2409														
R1999-0205	pm	23	L1 m	21.79	1.4347	0.3792	0.0086	0.1074	0.0915	0.2484	0.2495	0.4979				0.1968	0.2164	0.6915		
R1999-0206	pm	24	L1 m	19.12	0.9247	0.2878	0.0281	0.0929	0.0727	0.1013	0.1025	0.2038			0.0122	0.1974	0.2241	0.7026		
R1999-0207	pm	31	L1 f	21.25	1.2399	0.3417	0.0181	0.11	0.1554							0.1818	0.2459	0.6436		
R1999-0208	pm	42	L1 m	18.54	0.9342	0.2943	0.0136	0.0917	0.1263	0.2114	0.2156	0.427			0.0182	0.1661	0.1615	0.6323		
R1999-0209	pm	101	L1 f	23.25	2.1084	0.3204	0.0147	0.16	0.0877						0.1244	0.0101	0.228	0.2127	0.6075	
R1999-0210	pm	112	L1 f	16.33	0.9308	0.316	0.0118	0.1044	0.612						0.0672	0.016	0.183	0.1885	0.5386	
R1999-0212	pm	115	L1 m	14.31	1.0835	0.2704														
R1999-0213	pm	122	L1 f	20.5	1.7439	0.4341	0.0151	0.1135	0.1059						0.0757		0.1917	0.1934	0.651	
R1999-0214	pm	123	L1 f	19.37	1.0083	0.3347	0.0146	0.1076	0.1277						0.7532	0.0104	0.1865	0.172	0.5527	
R1999-0215	pm	124	L1 m	16.56	0.9243	0.2055	0.0111	0.0761	0.1244	0.0768	0.0729	0.1497				0.0283	0.1682	0.1421	0.5214	
R1999-0216	pm	130	L1 f	17.56	0.8751	0.3526	0.0154	0.0313	0.1775						0.9486	0.0262	0.1561	0.1443	0.557	
R1999-0217	pm	131	L1 f	14.71	0.935	0.2404	0.0087	0.0513	0.1791						0.0286	0.0297	0.1625	0.1641	0.5884	
R1999-0218	pm	132	L1 f	12.88	0.7971	0.2166	0.019	0.0827	0.1212						0.0178	0.0564	0.0945	0.1175	0.5782	

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site ID	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)	
R1999-0219	pm	133 L1	m		15.69	0.9741	0.2949	0.0745	0.0594	0.0555	0.0147	0.0187	0.0334		0.0291	0.1881		0.6673	
R1999-0220	pm	134 L1	m		15.36	1.1427	0.2441	0.0042	0.0362	0.0707	0.006	0.0075	0.0135		0.0443	0.1658	0.1856	0.6463	
R1999-0221	pm	135 L1	f		12.6	0.6638	0.2435	0.0211	0.0297	0.0853				0.0133		0.1145	0.1186	0.587	
R1999-0222	pm	140 L1	f		13.69	1.1171	0.2603	0.0156	0.1399	0.1089			0.0127	0.016	0.0176	0.1138	0.1366	0.5955	
R1999-0223	pm	141 L1	m		16.51	0.9879	0.2157	0.015	0.0746	0.1486	0.0065	0.0062	0.0127		0.0301	0.1253	0.1375	0.6799	
R1999-0224	pm	142 L1	m		17.67	1.4092	0.3183	0.0255	0.1392	0.1571	0.0081	0.013	0.0211		0.0185	0.1582	0.1902	0.6665	
R1999-0225	pm	404 L1	f		12.93	0.594	0.2552	0.016	0.0614	0.0861				0.0139	0.0115	0.1482	0.1651	0.6337	
Low 1				22	Mean	17.0	1.086	0.289	0.018	0.088	0.138	0.094	0.097	0.191	0.206	0.024	0.164	0.173	0.618
					SD	3.0	0.352	0.057	0.014	0.036	0.118	0.096	0.097	0.193	0.345	0.013	0.033	0.036	0.052
				n	22	22	22	20	20	20	9	9	9	10	16	20	19	20	
R1999-0241	pm	11 L2	m		20.38	1.1972	0.3075	0.0035	0.0626	0.0719	0.1971	0.1912	0.3883		0.0215	0.167	0.1571	0.6243	
R1999-0242	pm	12 L2	f		17.51	1.0321	0.6454	0.0261	0.0908	0.1011				0.0164	0.1706	0.2014	0.659		
R1999-0243	pm	13 L2	m		23.32	1.6357	0.3641	0.0202	0.3694	0.2756	0.1747	0.1715	0.3462		0.2307	0.2386	0.718		
R1999-0244	pm	22 L2	m		20.52	1.5643	0.3256	0.0082	0.1129	0.0762	0.0904	0.093	0.1834		0.025	0.1863	0.2019	0.5688	
R1999-0245	pm	23 L2	m		20.61	1.1828	0.3051	0.0185	0.0806	0.1637	0.0147	0.0149	0.0296		0.0384	0.1587	0.1885	0.6804	
R1999-0246	pm	25 L2	m		19.15	1.0135	0.2958												
R1999-0247	pm	31 L2	f		20.15	1.2984	0.3298	0.0227	0.0689	0.0925				0.0637	0.0116	0.1688	0.1806	0.628	
R1999-0248	pm	32 L2	m		16.37	0.7951	0.2722	0.0219	0.0655	0.1102	0.0116	0.017	0.0286		0.0199	0.1371	0.156	0.6272	
R1999-0249	pm	33 L2	f		19.67	1.9763	0.4129	0.0214	0.0856	0.1353				0.056		0.1693	0.2054	0.6785	
R1999-0250	pm	34 L2	f		24.65		0.4055	0.0291	0.1798	0.2154				0.1719		0.1668	0.2143	0.6752	
R1999-0251	pm	51 L2	m		14.3	0.9256	0.2185								0.0105	0.0101	0.1308	0.144	0.6187
R1999-0253	pm	54 L2	f		16.1	0.9047	0.2485	0.0167	0.0556	0.0986				0.0119	0.0084	0.1355	0.1476	0.6343	
R1999-0254	pm	55 L2	f		12.88	0.5366	0.2302	0.0155	0.0452	0.1031									

Continued

**Table 6-29A. Continued**

Sample ID	Species / Site	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)	
R1999-0256	pm	112 L2	m		13.74	0.705	0.2039	0.0188	0.0596	0.1422	0.0039	0.0047	0.0086		0.0138	0.1201	0.1365	0.5819	
R1999-0257	pm	121 L2	f		14.45	0.7473	0.2744	0.0113	0.0561	0.1618				0.0072	0.0032	0.1546	0.1432	0.616	
R1999-0259	pm	131 L2	m		15.15	0.7404	0.2327												
R1999-0260	pm	133 L2	m		11.55	0.6129	0.2341	0.0121	0.0465	0.0417	0.0057	0.0073	0.013		0.0184	0.1413	0.1538	0.5742	
R1999-0261	pm	134 L2	f		23.24	1.6786		0.0163	0.0481	0.2059				0.0455		0.1499	0.1969	0.6277	
R1999-0262	pm	135 L2	m		17.82	1.1671	0.3002												
R1999-0263	pm	140 L2	f		12.98	0.7892	0.2057	0.0183	0.056	0.1387				0.0153	0.0234	0.1148	0.1215	0.6046	
R1999-0264	pm	141 L2	f		13.35	0.533	0.2182	0.0087	0.0345	0.0592				0.014	0.0187	0.1522	0.2543	0.6774	
R1999-0265	pm	142 L2	m		15.23	1.0124	0.25	0.01	0.0674	0.0587	0.0031	0.0053	0.0084		0.0231	0.1746	0.2484	0.6659	
R1999-0266	pm	143 L2	m		13.64	1.0686	0.2089												
R1999-0267	pm	144 L2	m		15.04	0.8057	0.2098	0.0144	0.0551	0.0717	0.0042	0.0045	0.0087		0.0145	0.1232	0.1509	0.6647	
R1999-0268	pm	145 L2	m		14.37	0.927	0.2301	0.0151	0.919	0.0697	0.0054	0.0063	0.0117		0.0114	0.1436	0.1705	0.6133	
Low 2				25	Mean	17.0	1.035	0.289	0.016	0.128	0.120	0.051	0.052	0.103	0.044	0.017	0.155	0.181	0.637
					SD	3.7	0.376	0.098	0.006	0.200	0.061	0.076	0.074	0.149	0.053	0.008	0.027	0.039	0.040
					n	25	24	24	20	20	20	10	10	10	9	16	20	20	20
R1999-0278	pm	13 M1	m		18.89	1.4641	0.3128	0.0207	0.06	0.0515	0.0072	0.0097	0.0169		0.0257	0.1704	0.2092	0.6464	
R1999-0279	pm	14 M1	f		21.18	1.1498	0.3839	0.0228	0.07	0.1476				0.0622		0.1667	0.194	0.5897	
R1999-0280	pm	15 M1	m		19.51	1.3162	0.2673	0.0092	0.0986	0.126	0.1143	0.1152	0.2295		0.0377	0.1612	0.1928	0.6651	
R1999-0281	pm	21 M1	f		29.1	2.3303	0.4344	0.0192	0.1583	0.0823				0.0875	0.0189	0.3006	0.2425	0.7035	
R1999-0282	pm	24 M1	m		18.11	1.1914	0.2962	0.0122	0.0668	0.0866	0.0038	0.0379	0.0417		0.0145	0.1911	0.1645	0.668	
R1999-0283	pm	25 M1	f		19.58	1.4345	0.3035	0.0246	0.0709	0.173				0.0914		0.132	0.1573	0.6423	
R1999-0284	pm	33 M1	m		16.6	0.8633	0.2866												
R1999-0285	pm	44 M1	f		26.81	1.4003	0.3417	0.0234	0.1259	0.2277				1.0416	0.0081	0.1758	0.206	0.688	

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site ID	Field Site ID	Sex Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)			
R1999-0286	pm	53 M1	f	16.73	1.2027	0.2365	0.0136	0.0542	0.1187			0.03	0.0129	0.1655	0.1627	0.5869				
R1999-0287	pm	101 M1	m	20.75	0.9977	0.3149														
R1999-0288	pm	111 M1	m	21.8	1.6265	0.4276	0.0172	0.1367	0.1325	0.2075	0.2037	0.4112		0.0107	0.1902	0.1929	0.6462			
R1999-0289	pm	114 M1	m	23.14	1.5357	0.3681	0.0249	0.0965	0.2446	0.2023	0.2089	0.4112			0.1864	0.2105	0.7071			
R1999-0290	pm	125 M1	m	19.5	1.0651	0.3066	0.0017	0.0713	0.0997	0.2596	0.254	0.5136			0.1838	0.2546	0.6805			
R1999-0293	pm	132 M1	m	18.66	1.1846															
R1999-0295	pm	151 M1	f	18.93	1.2059	0.327	0.0162	0.1607	0.1334			0.8666		0.135	0.3456	0.6403				
R1999-0296	pm	155 M1	f	20.13	1.1112	0.2414	0.0105	0.0946	0.1222			1.1033	0.0133	0.1292	0.2814	0.623				
R1999-0297	pm	213 M1	m	21.34	1.6731	0.2853	0.0273	0.0832	0.1192	0.0262	0.0227	0.0489		0.0246	0.1639	0.1637	0.6541			
R1999-0298	pm	214 M1	m	15.6	0.818	0.304														
R1999-0299	pm	220 M1	m	21.18	1.1868	0.3437	0.0057	0.0991	0.0875	0.1394	0.1483	0.2877		0.0152	0.1921	0.1926	0.6785			
R1999-0300	pm	221 M1	f	17.04	1.3456	0.2918	0.0243	0.0794	0.0904			0.1072	0.0158	0.1772	0.1621	0.5249				
R1999-0302	pm	232 M1	f	22.47	1.7022	0.3527	0.0184	0.0976	0.126			0.1261	0.0172	0.1764	0.1855	0.6611				
R1999-0303	pm	235 M1	f	21.43	2.469	0.3147	0.0291	0.1399	0.2253			0.0383	0.227	0.1881	0.2597	0.7043				
R1999-0304	pm	242 M1	f	15.61	1.1011	0.2928	0.0208	0.0534	0.0536			0.027	0.01023	0.1531	0.1521	0.571				
R1999-0305	pm	243 M1	f	14.52	1.023	0.2696	0.0372	0.0407	0.037			0.0267	0.0238	0.1625	0.151	0.6652				
				Medium 1	24	Mean	19.9	1.350	0.318	0.019	0.093	0.124	0.120	0.125	0.245	0.301	0.032	0.175	0.204	0.647
						SD	3.4	0.400	0.051	0.008	0.035	0.057	0.100	0.094	0.193	0.428	0.055	0.035	0.050	0.048
						n	24	24	23	20	20	20	8	8	8	12	15	20	20	20

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis (grams)	Left Testis (grams)	Total Testes (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)		
R1999-0312	pm	25 M2	m		17.63	1.1075	0.3151	0.0166	0.101	0.1207	0.0073	0.0055	0.0128		0.0415	0.1851	0.1655	0.6311		
R1999-0313	pm	34 M2	f		15.59	0.9897	0.2747	0.0203	0.044	0.08				0.1098	0.0132	0.1776	0.1497	0.6253		
R1999-0314	pm	41 M2	f		22.1	1.5524	0.4382	0.0131	0.1884	0.1084				0.2788	0.0136	0.1845	0.2335	0.6032		
R1999-0315	pm	42 M2	f		16.68	1.3467	0.3124	0.0124	0.0541	0.0825				0.2493	0.0073	0.1382	0.1506	0.5575		
R1999-0316	pm	45 M2	m		16.79	0.9585	0.2667	0.0181	0.0402	0.0415	0.0119	0.0115	0.0234		0.0164	0.1368	0.1686	0.6644		
R1999-0317	pm	51 M2	f		25.3	1.8176	0.3654	0.0266	0.0803	0.207				0.1497		0.202	0.2291	0.6231		
R1999-0318	pm	52 M2	m		15.3	1.4035	0.292	0.0142	0.0554	0.1074	0.0135	0.01414	0.02764		0.0051	0.1458	0.1549	0.6376		
R1999-0319	pm	53 M2	m		14.71	1.1575	0.3875	0.0132	0.0445	0.0624	0.0069	0.0086	0.0155		0.023	0.1518	0.1896	0.5854		
R1999-0320	pm	54 M2	m		13.48	0.9099	0.2377	0.0163	0.0736	0.0561	0.0159	0.0127	0.0286		0.0298	0.1591	0.1607	0.5979		
R1999-0321	pm	55 M2	f		15.27	0.7429	0.2717	0.0245	0.0448					0.0466		0.1479	0.157	0.5787		
R1999-0322	pm	101 M2	m		12.23		0.2428	0.0173	0.0293	0.0832	0.0068	0.007	0.0138		0.0136	0.1399	0.1262	0.6309		
R1999-0323	pm	102 M2	f		21.27	1.7386	0.3192	0.0231	0.0645	0.0605				0.0502	0.0258	0.2111	0.179	0.5623		
R1999-0324	pm	103 M2	m		16.41	1.2826	0.3407	0.015	0.0458	0.0891	0.0149	0.0134	0.0283		0.0223	0.1849	0.2426	0.6513		
R1999-0325	pm	105 M2	m		20.1	1.3713	0.301	0.0199	0.1053		0.0603	0.0676	0.1279			0.1687	0.2081	0.6109		
R1999-0326	pm	110 M2	f		21.95	1.7954	0.3951	0.0104	0.1081	0.1339				0.0652	0.0249	0.2212	0.2684	0.6034		
R1999-0327	pm	111 M2	f		14.7	1.043	0.2895	0.0176	0.0302	0.0974				0.018	0.0231	0.1386	0.1649	0.5981		
R1999-0328	pm	112 M2	m		10.71	0.4391	0.2218	0.0114	0.0359	0.0514	0.0047	0.0073	0.012		0.0217	0.1661	0.1461	0.6266		
R1999-0329	pm	113 M2	m		15	0.733	0.2905	0.1395	0.0695	0.1253	0.0141	0.008	0.0221		0.0374	0.1525	0.1618	0.6111		
R1999-0330	pm	114 M2	f		13.27	1.139	0.2788	0.0202	0.0645	0.1038				0.0274	0.0219	0.1173	0.1596	0.6236		
				Medium 2	19	Mean	16.8	1.196	0.307	0.024	0.067	0.095	0.016	0.016	0.031	0.111	0.021	0.165	0.180	0.612
						SD	3.8	0.382	0.057	0.028	0.038	0.040	0.016	0.019	0.035	0.096	0.010	0.028	0.038	0.028
						n	19	18	19	19	19	17	10	10	10	9	16	19	19	19

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)
R1999-0136	pm	13 H1	f	20.59	1.6953	0.3547	0.014	0.0728	0.1797		0.0963	0.0963		0.0195	0.1609	0.2695	0.576
R1999-0137	pm	15 H1	f	23.92	1.3146	0.3281	0.0189	0.0752	0.1846				1.4582	0.0286	0.1587	0.1515	0.59
R1999-0143	pm	21 H1	m	17.33	0.9778	0.3	0.0168	0.0615	0.1547					0.0593	0.1743	0.1967	0.5912
R1999-0145	pm	24 H1	m	18.16	1.0416	0.2836											
R1999-0146	pm	35 H1	m		1.1019	0.2747	0.0105	0.0933	0.0669	0.205	0.2015	0.4065		0.0225	0.1896	0.2126	0.6559
R1999-0147	pm	42 H1	m	20.41	1.4272	0.4447	0.0155	0.1747	0.1929	0.1042	0.1074	0.2116		0.0108	0.1959	0.1843	0.6999
R1999-0148	pm	43 H1	f	16.59	0.8466	0.2871	0.0198	0.0902	0.1604				0.0233	0.0293	0.1321	0.1369	0.5721
R1999-0149	pm	44 H1	m	18.29	0.9296	0.3272											
R1999-0150	pm	54 H1	m	21.93	1.2498	0.3245	0.018	0.1151	0.1401	0.1872	0.18	0.3672		0.0194	0.1921	0.1824	0.7003
R1999-0151	pm	55 H1	f	22.19	1.7691	0.3634	0.0111	0.0683	0.0926				0.1084	0.0092	0.1912	0.2019	0.6413
R1999-0152	pm	104 H1	m	16.72	1.0409	0.2261	0.0191	0.0721	0.1548	0.0051	0.0068	0.0119		0.0324	0.1424	0.1818	0.5645
R1999-0153	pm	110 H1	f	22.05	1.3262	0.3188	0.0198	0.1474	0.0845				0.9725	0.0216	0.1941	0.3138	0.5478
R1999-0154	pm	111 H1	f	21.21	1.2136	0.3346	0.013	0.0622	0.0849				0.0899	0.0161	0.1818	0.1802	0.5928
R1999-0155	pm	112 H1	m	18.12	1.128	0.4063	0.0181	0.0877	0.114	0.1772	0.1806	0.3578		0.0111	0.1688	0.2439	0.648
R1999-0156	pm	114 H1	f	16.33	0.8429	0.2158	0.0128	0.0499	0.053				0.0144	0.0145	0.1818	0.1564	0.6012
R1999-0158	pm	131 H1	f	17.66	1.4062	0.3246	0.0207	0.0922	0.1315				0.0543	0.0177	0.1324	0.1534	0.6123
R1999-0159	pm	132 H1	m	17.62	0.8731	0.2259	0.0196	0.0685	0.1511	0.0097	0.0035	0.0132			0.1266	0.1619	0.6371
R1999-0160	pm	135 H1	f	20.44	1.528	0.3018	0.02	0.0735	0.1587				0.0575	0.0136	0.1525	0.199	0.6489
R1999-0161	pm	140 H1	f	18.23	1.192	0.2791	0.0037	0.0827	0.0472				0.0604	0.0181	0.1679	0.1993	0.6531

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)	
R1999-0162	pm	141 H1	m	21.9	1.1849	0.2878												
R1999-0163	pm	142 H1	f	20.38	1.5545	0.3072	0.108	0.0857	0.1337				0.0871		0.2055	0.2408	0.6647	
R1999-0164	pm	143 H1	m	18.66	1.3537	0.2498	0.013	0.0627	0.0885	0.0038	0.0032	0.007			0.002	0.172	0.1834	0.6321
R1999-0165	pm	144 H1	m	20.17	1.1793	0.3063												
R1999-0166	pm	145 H1	f	12.85	0.9556	0.2867	0.0046	0.0431	0.0549				0.0134	0.018	0.1565	0.1655	0.6289	
R1999-0168	pm	201 H1	f	14.95	0.8683	0.2507	0.0115	0.0702	0.063				0.0401	0.024	0.1661	0.2177	0.6164	
High 1				Mean	19.0	1.200	0.304	0.019	0.083	0.119	0.099	0.097	0.184	0.248	0.020	0.169	0.197	0.623
				SD	2.6	0.264	0.053	0.021	0.031	0.047	0.092	0.085	0.174	0.464	0.012	0.023	0.043	0.042
				n	24	25	25	21	21	21	7	8	8	12	19	21	21	21
R1999-0170	pm	22 H2	f	24.78	1.9102	0.3979	0.045	0.1129	0.2578				0.2552		0.1819	0.2424	0.681	
R1999-0171	pm	23 H2	m	16.45	0.7334	0.278												
R1999-0172	pm	31 H2	m	22.03	1.1861	0.2826	0.016	0.0521	0.2521	0.1913	0.1921	0.3834			0.1823	0.1979	0.7091	
R1999-0173	pm	34 H2	m	19.45	1.0018	0.2493	0.0186	0.0797	0.0855	0.1151	0.1198	0.2349			0.0217	0.17	0.1605	0.685
R1999-0174	pm	35 H2	f	14.96	0.8188	0.258	0.016	0.0779	0.0484				0.0283	0.0209	0.1642	0.1545	0.6068	
R1999-0175	pm	41 H2	f	24.1	1.5119	0.2986	0.0171	0.086	0.0971				0.0724	0.0077	0.1525	0.4332		
R1999-0176	pm	42 H2	m	20.91	1.1856	0.3156	0.0196	0.1495	0.2131	0.1085	0.1173	0.2258			0.0504	0.2363	0.189	0.614
R1999-0177	pm	44 H2	m	15.22	0.7222	0.2446												
R1999-0178	pm	45 H2	f	17	0.9725	0.2705												
R1999-0179	pm	52 H2	f	17.57	1.0874	0.2555												
R1999-0180	pm	53 H2	m	21.55	1.2544	0.308	0.0122	0.1096	0.1033	0.1676	0.1594	0.327			0.2112	0.1969	0.6921	
R1999-0181	pm	54 H2	m	15.48	0.75	0.228												
R1999-0182	pm	113 H2	f	18.67	1.5841	0.3625												

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site ID	Field Site	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Total Testes Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)	
R1999-0183	pm	114 H2	f		14.63	0.9355	0.2784	0.0142	0.0765	0.0463					0.0168	0.1795	0.1794	0.5971	
R1999-0184	pm	115 H2	f		17.39	0.9787	0.2738	0.0115	0.0833	0.096					0.049	0.0239	0.1875	0.2216	0.6459
R1999-0185	pm	121 H2	f		22.77	1.5687	0.3356	0.0246	0.0757	0.1014					0.0687	0.0132	0.1767	0.1523	0.6574
R1999-0186	pm	123 H2	m		20.64	1.1825	0.2698												
R1999-0187	pm	125 H2	f		26.93	3.1009	0.31	0.0183	0.0602	0.2286					0.0561		0.1686	0.1947	0.6876
R1999-0188	pm	130 H2	m		14.19	0.7337	0.2389	0.0181	0.0822	0.1264	0.0044	0.0076	0.012			0.1495	0.1557	0.6112	
R1999-0189	pm	132 H2	f		15.52	0.9476	0.2631	0.0193	0.0977	0.0533					0.0172	0.0268	0.1889	0.1637	0.5988
R1999-0190	pm	133 H2	m		14.68	0.8209	0.2314	0.0114	0.0704	0.0602	0.0077	0.0078	0.0155			0.0296	0.1693	0.1862	0.5843
R1999-0191	pm	134 H2	m		16.67	1.1019	0.2169	0.0166	0.0539	0.125	0.012	0.0109	0.0229			0.0152	0.1313	0.1576	0.6395
R1999-0192	pm	135 H2	f		13.81	0.7764	0.2085	0.0081	0.0835	0.0777					0.0172		0.1206	0.1568	0.6113
R1999-0193	pm	140 H2	m		14.61	0.6821	0.2088	0.0138	0.0234	0.149	0.0165	0.0099	0.0264				0.1353	0.2121	0.6431
R1999-0194	pm	141 H2	m		15.15	0.9597	0.2046	0.0169	0.0531	0.1185	0.003	0.0022	0.0052			0.0051	0.1428	0.1733	0.5782
R1999-0195	pm	142 H2	m		16.56	0.738	0.2123	0.0148	0.0702	0.0616	0.0096	0.0119	0.0215			0.0123	0.176	0.2013	0.5843
R1999-0196	pm	1121 H2	m		23.85	1.3863	0.2912	0.0169	0.1472	0.2646	0.189	0.1861	0.3751			0.0164	0.1685	0.2107	0.6376
High 2				27	Mean	18.4	1.134	0.270	0.017	0.082	0.128	0.075	0.075	0.150	0.071	0.020	0.170	0.197	0.635
					SD	3.8	0.503	0.048	0.007	0.030	0.074	0.080	0.080	0.160	0.078	0.012	0.027	0.061	0.041
					n	27	27	27	20	20	20	11	11	11	8	13	20	20	19

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site	Field Site ID	Sex	Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)	
R1999-0119	pm	23	anarts	f		1.0906	0.2305	0.0184	0.2222	0.1276				0.0322	0.0166	0.1366	0.1984	0.6485	
R1999-0120	pm	35	anarts	m	20.78	1.6073	0.3574	0.0142	0.0879	0.1329	0.0191	0.0196	0.0387			0.1728	0.2001	0.636	
R1999-0121	pm	41	anarts	f	14.74	0.6614	0.2001	0.0117	0.0246	0.0407				0.0443	0.0173	0.1315	0.1671	0.5626	
R1999-0122	pm	45	anarts	m	14.99	0.7381	0.2339	0.0174	0.0532	0.1132	0.006	0.0064	0.0124			0.1249	0.1106	0.4287	
R1999-0123	pm	101	anarts	f	13.25	0.734	0.2022	0.0165	0.1009	0.0444				0.0589	0.015	0.1522	0.2408	0.5275	
R1999-0124	pm	104	anarts	m	14.56	0.8003	0.2058	0.0154	0.0297	0.1332	0.0055	0.0035	0.009		0.0152	0.1153	0.1316	0.5523	
R1999-0126	pm	110	anarts	m	13.42	0.9343	0.2231	0.0122	0.0869	0.0409	0.0049	0.0088	0.0137		0.0205	0.1429	0.1507	0.5874	
R1999-0127	pm	112	anarts	m	16.19	0.8633	0.2289	0.0174	0.0354	0.0601	0.0158	0.0133	0.0291		0.017	0.146	0.1457	0.6285	
R1999-0128	pm	113	anarts	m	16.03	0.9328	0.2427	0.0112	0.0487	0.0615	0.0119	0.009	0.0209		0.0116	0.1704	0.1586	0.5321	
R1999-0129	pm	114	anarts	f	14.12	1.0045	0.1703	0.0133	0.0253	0.0896				0.014	0.0168	0.1136	0.1427	0.5215	
R1999-0130	pm	115	anarts	f	12.48	0.7155		0.0143	0.0424	0.1206					0.0445	0.1259	0.1391	0.5812	
R1999-0131	pm	120	anarts	m	19	1.2842	0.238	0.0154	0.0372	0.1466	0.0178	0.0146	0.0324			0.1481	0.1911	0.63	
R1999-0132	pm	122	anarts	f	13.26	0.644	0.1835	0.0135	0.0656	0.0428				0.0382	0.0323	0.1476	0.156	0.5715	
R1999-0133	pm	123	anarts	m	14.54	0.7377	0.217	0.0185	0.0495	0.1102	0.0137	0.0084	0.0221		0.0416	0.1263	0.1748	0.6874	
Anconda ARTS				14	Mean	15.2	0.911	0.226	0.015	0.065	0.090	0.012	0.010	0.022	0.038	0.023	0.140	0.165	0.578
					SD	2.4	0.269	0.045	0.002	0.051	0.040	0.006	0.005	0.010	0.016	0.011	0.018	0.034	0.066
				n		13	14	13	14	14	14	8	8	8	5	11	14	14	14
R1999-0339	pm	22	oparts	f		14.58	0.8113	0.2532	0.0192	0.033	0.1139				0.0133	0.0256	0.1273	0.1701	0.6909
Opportunity ARTS				1	Mean	14.58	0.8113	0.2532	0.0192	0.033	0.1139	-	-	-	0.0133	0.0256	0.1273	0.1701	0.6909
					SD	-	-	-	-	-	-	-	-	-	-	-	-	-	
				n		1	1	1	1	1	1	0	0	0	1	1	1	1	1

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site ID	Field Site ID	Sex Site N	Body Mass (grams)	Liver Weight (grams)	Kidneys Weight (grams)	Adrenals Weight (grams)	Spleen Weight (grams)	Pancreas Weight (grams)	Right Testis Weight (grams)	Left Testis Weight (grams)	Testes Total Weight (grams)	Uterus Weight (grams)	Thymus Weight (grams)	Heart Weight (grams)	Lungs Weight (grams)	Brain Weight (grams)		
R1999-0344	pm	12	smarco	f	19.81	0.9564	0.3241	0.01	0.0562	0.1239			0.0709		0.1527	0.1497	0.5499		
R1999-0346	pm	15	smarco	m	19.46	1.0505	0.358	0.0127	0.1002	0.1303	0.1599	0.1679	0.3278		0.1129	0.142	0.5722		
R1999-0347	pm	23	smarco	m	17.19	0.9861	0.2836												
R1999-0348	pm	32	smarco	f	26.16	1.4469	0.3895	0.0291	0.1909	0.1213				1.3796	0.0089	0.1703	0.2496	0.6941	
R1999-0349	pm	34	smarco	m	18.16	0.8741	0.2626												
R1999-0350	pm	42	smarco	m	18.91	1.0516	0.3257	0.0176	0.0831	0.0672	0.0278	0.0261	0.0539		0.013	0.1137	0.1581	0.593	
R1999-0351	pm	53	smarco	m	21.58	2.2161	0.3689												
R1999-0352	pm	101	smarco	f	19.08	1.0999	0.2726	0.0219	0.0403	0.1688			0.0589		0.1598	0.1829	0.6329		
R1999-0353	pm	105	smarco	f	21.02	1.5917	0.4395	0.1038	0.1704	0.0835			0.0455	0.0197	0.2272	0.1665	0.5852		
R1999-0354	pm	112	smarco	m	20.58	1.1766	0.3084	0.0099	0.1011	0.1235	0.0496	0.0446	0.0942		0.0218	0.1593	0.1747	0.6484	
R1999-0355	pm	125	smarco	m	20.04	0.9294	0.2688	0.0145	0.0996	0.2043	0.0845	0.0914	0.1759		0.0216	0.1586	0.196	0.6998	
R1999-0357	pm	135	smarco	m	17.1	0.872	0.2609	0.0179	0.0519	0.0887	0.0071	0.0075	0.0146		0.0332	0.1555	0.1509	0.6217	
R1999-0362	pm	220	smarco	m	17.45	1.2411	0.2927												
R1999-0361	pm	1525	smarco	f	20.3	1.0508	0.3117	0.0282	0.0957	0.1436			0.0944		0.1545	0.2403	0.6277		
Smelter Hill				14	Mean	19.8	1.182	0.319	0.027	0.099	0.126	0.066	0.068	0.133	0.330	0.020	0.156	0.181	0.622
ARCO					SD	2.3	0.363	0.053	0.028	0.049	0.041	0.060	0.064	0.124	0.587	0.008	0.032	0.037	0.049
				n	14	14	14	10	10	10	5	5	5	5	5	6	10	10	10

Continued

**Table 6-29A.** Continued

Sample ID	Species / Site ID	Field Site ID	Sex Site N	Body	Liver	Kidneys	Adrenals	Spleen	Pancreas	Right	Left	Testes	Uterus	Thymus	Heart	Lungs	Brain			
				Mass (grams)	Weight (grams)	Weight (grams)	Weight (grams)	Weight (grams)	Weight (grams)	Testis	Testis	Total Weight (grams)	Weight (grams)	Weight (grams)	Weight (grams)	Weight (grams)				
R1999-0364	pm	14	smarts	f	30.5	1.1692	0.2701	0.0247	0.0968	0.1301			1.4467	0.0238	0.1656	0.1963	0.6087			
R1999-0370	pm	24	smarts	f	24.14	1.4159	0.333	0.0258	0.0799	0.091			1.1132	0.0132	0.2035	0.2134	0.6656			
R1999-0371	pm	34	smarts	m	18.65	0.8836	0.3183	0.0147	0.0602	0.1785	0.1906	0.2046	0.3952		0.0171	0.1497	0.1754	0.6375		
R1999-0372	pm	43	smarts	f	26.95	1.1883	0.315	0.0255	0.0922	0.1511			1.7094		0.1746	0.2343	0.6706			
R1999-0373	pm	45	smarts	m	19.85	1.2285	0.3086		0.0711	0.1158	0.212	0.2017	0.4137		0.0094	0.1715	0.1954	0.5855		
R1999-0374	pm	102	smarts	m	15.96	0.8818	0.2567													
R1999-0375	pm	104	smarts	f	22.02	1.5703	0.361	0.0185	0.0734	0.2474			0.105		0.143	0.2571	0.6908			
R1999-0376	pm	121	smarts	f	28.63	2.0542	0.3593	0.0157	0.1387	0.0896			1.9143	0.0106	0.2109	0.2114	0.6449			
R1999-0377	pm	131	smarts	m	17.63	1.0274	0.2291	0.03	0.0973	0.0729	0.0065	0.0075	0.014		0.0325	0.1634	0.1728	0.6923		
R1999-0379	pm	133	smarts	m	23.06	1.6515														
R1999-0380	pm	135	smarts	m	16.78	1.09	0.3209	0.0266	0.075	0.1012	0.0216	0.0209	0.0425		0.0171	0.1662	0.1919	0.6228		
R1999-0381	pm	142	smarts	m	22.06	1.4647	0.313													
R1999-0382	pm	143	smarts	f	22.23	1.429	0.3697	0.0212	0.0639	0.2195			0.1344	0.0102	0.2118	0.258	0.7693			
R1999-0387	pm	230	smarts	m	21.21	1.0396	0.3878	0.0175	0.0719	0.2071	0.2145	0.2136	0.4281		0.1811	0.2204	0.6212			
R1999-0389	pm	251	smarts	m	19.72	0.985	0.3063													
				Smelter Hill	15	Mean	22.0	1.272	0.318	0.022	0.084	0.146	0.129	0.130	0.259	1.071	0.017	0.176	0.211	0.655
				ARTS		SD	4.2	0.325	0.044	0.005	0.022	0.059	0.106	0.106	0.211	0.784	0.008	0.023	0.029	0.051
				n	15		15	14	10	11	11	5	5	5	6	8	11	11	11	

**Table 6-30.** Tissue Weights. Anaconda Smelter Site, 2000. N is the total number of animals measured while n is the number positive for the endpoint.

Sample ID	Site	Species	Sex	Site	Body Mass (grams)	Liver (grams)	Kidneys (grams)	Spleen (grams)	R. Testis (grams)	L. Testis (grams)	Testes (T) (grams)	Ovaries (grams)	
<u>Gopher</u>													
R2000-0068	Low	tt	f		84.17	3.7030	1.0762	0.1729				0.0321	
R2000-0070	Low	tt	f		53.29	2.3614	0.8013	0.1009				0.0134	
R2000-0069	Low	tt	m		54.54	2.6628	0.9488	0.0555	0.0224	0.0323	0.0547		
R2000-0071	Low	tt	m		102.02	4.0403	1.2953	0.1358	0.1803	0.1891	0.3694		
R2000-0072	Low	tt	f		75.8	2.9766	0.9435	0.1707				0.0206	
R2000-0073	Low	tt	f		68.96	3.5069	1.1082	0.4344				0.0284	
R2000-0074	Low	tt	m		86.2	.	1.1445	0.1231	0.1522	0.1316	0.2838		
R2000-0075	Low	tt	f		75.34	3.0815	0.8843	0.0878				0.0132	
R2000-0076	Low	tt	f		55.09	2.5011	0.9221	0.1289				0.0085	
R2000-0077	Low	tt	f		.	2.7545	0.8078	0.1545				0.0329	
				10	Mean	72.8	3.065	0.993	0.156	0.118	0.118	0.236	0.021
					SD	16.7	0.574	0.159	0.104	0.084	0.079	0.163	0.010
					n	9	9	10	10	3	3	3	7

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass	Liver	Kidneys	Spleen	R. Testis	L. Testis	Testes (T)	Ovaries	
					(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
R2000-0100	Medium	tt	m		84	3.6985	0.8678	0.1361	0.134	0.1374	0.2714		
R2000-0099	Medium	tt	f		76.57	3.2431	0.78	0.1091			0.0214		
R2000-0102	Medium	tt	m		75.25	4.4438	0.8125		0.1504	0.1195	0.2699		
R2000-0103	Medium	tt	m		53.58	2.3460	0.6784	0.0887	0.0241	0.029	0.0531		
R2000-0101	Medium	tt	m		54.33	2.2136	0.5865	0.0886	0.0387	0.041	0.0797		
R2000-0106	Medium	tt	m		81.34	3.2018	0.7448	0.1511	0.15	0.1469	0.2969		
R2000-0105	Medium	tt	f		90.02	3.5611	1.1295	0.4168			0.0045		
R2000-0104	Medium	tt	m		65.75	2.5010	0.5509	0.0931	0.0533	0.0247	0.078		
R2000-0108	Medium	tt	m		56.17	3.0446	0.6169	0.2966	0.0185	0.0193	0.0378		
R2000-0107	Medium	tt	f		51.26	2.1525	0.4649	0.1196			0.0161		
					10	Mean	68.8	3.041	0.723	0.167	0.081	0.074	0.155
						SD	14.4	0.744	0.190	0.114	0.061	0.058	0.117
						n	10	10	10	9	7	7	3
R2000-0038	High	tt	f		64	3.1801	0.7549	0.1027					
R2000-0037	High	tt	f		84	3.5985	0.8767	0.1573					
R2000-0036	High	tt	f		81.45	3.7384	0.9436	0.0988			0.0522		
R2000-0035	High	tt	f		92.11	4.4050	0.84	0.1801			0.0254		
R2000-0039	High	tt	f		73.45	4.7287	0.88	0.1218			0.0136		
R2000-0040	High	tt	f		58.5	2.4497	0.6309	0.0468			0.0079		
R2000-0042	High	tt	f		67.84	2.9632	0.7618	0.1605			0.0085		
R2000-0043	High	tt	m		100.85	4.0105	0.9786	0.1588	0.1549	0.1747	0.3296		
R2000-0044	High	tt	m		84.92	3.7490	0.7877	0.1985	0.1328	0.1608	0.2936		
R2000-0041	High	tt	f		85.39	3.8531	0.8737	0.1438			0.0214		
					10	Mean	79.3	3.668	0.833	0.137	0.144	0.168	0.312
						SD	13.1	0.671	0.102	0.045	0.016	0.010	0.025
						n	10	10	10	10	2	2	6

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass	Liver	Kidneys	Spleen	R. Testis	L. Testis	Testes (T)	Ovaries	
					(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
<b>Meadow Vole</b>													
R2000-0011	H1	mp	f			1.1105	0.3301	0.0283				0.0363	
R2000-0010	H1	mp	m		28.77	1.7076	0.417	0.0793	0.1897	0.1629	0.3526		
R2000-0022	H1	mp	m		15.36	0.9091	0.4023	0.0676	0.0042	0.0053	0.0095		
				3	Mean	22.1	1.242	0.383	0.058	0.097	0.084	0.181	0.036
					SD	9.5	0.415	0.047	0.027	0.131	0.111	0.243	-
					n	2	3	3	3	2	2	2	1
R2000-0024	H2	mp	f		25.93	1.3237	0.3504	0.0691				0.028	
R2000-0023	H2	mp	m		28.39	1.4711	0.2969	0.0818	0.1211	0.109	0.2301		
				2	Mean	27.2	1.397	0.324	0.075	0.121	0.109	0.230	0.028
					SD	1.7	0.104	0.038	0.009	-	-	-	-
					n	2	2	2	2	1	1	1	1
R2000-0002	D-Strip	mp	m		28.22	1.6450	0.4224	0.0368	0.1544	0.1445	0.2989		
R2000-0001	D-Strip	mp	f		31.53	1.8904	0.4762	0.2951				0.0359	
				2	Mean	29.9	1.768	0.449	0.166	0.154	0.145	0.299	0.036
					SD	2.3	0.174	0.038	0.183	-	-	-	-
					n	2	2	2	2	1	1	1	1

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass (grams)	Liver (grams)	Kidneys (grams)	Spleen (grams)	R. Testis (grams)	L. Testis (grams)	Testes (T) (grams)	Ovaries (grams)	
R2000-0110	Smarco	mp	m		24.5	0.6235	0.2903	0.0553	0.1968	0.1771	0.3739		
R2000-0123	Smarco	mp	f		26.35	1.2906	0.3843	0.0683				0.0299	
R2000-0111	Smarco	mp	f		23.94	1.0898	0.3485	0.0536				0.0342	
R2000-0109	Smarco	mp	m		33.85	1.4840	0.4104	0.1393	0.1657	0.1809	0.3466		
R2000-0112	Smarco	mp	m		18.36	0.8308	0.2198	0.0315	0.0541	0.0629	0.117		
R2000-0113	Smarco	mp	m		14.57	0.6995	0.2476	0.0474	0.0101	0.0099	0.02		
					6	Mean	23.6	1.003	0.317	0.066	0.107	0.108	0.214
						SD	6.7	0.343	0.076	0.038	0.089	0.085	0.173
						n	6	6	6	6	4	4	2
R2000-0124	Smarts	mp	f		26.64	1.0809	0.3635	0.0509				0.0329	
R2000-0126	Smarts	mp	m		36.92	1.5508	0.4236	0.1406	0.083	0.0835	0.1665		
R2000-0128	Smarts	mp	f		19.17	1.0789	0.3744	0.0355				0.0188	
R2000-0127	Smarts	mp	f		28.37	1.3118	0.3562	0.0485				0.0306	
R2000-0125	Smarts	mp	m		24.6	1.3617	0.374	0.1094	0.1482	0.1477	0.2959		
					5	Mean	27.1	1.277	0.378	0.077	0.116	0.116	0.231
						SD	6.5	0.201	0.026	0.046	0.046	0.045	0.091
						n	5	5	5	2	2	2	3

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass	Liver	Kidneys	Spleen	R. Testis	L. Testis	Testes (T)	Ovaries	
					(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
<b><u>Deer Mouse</u></b>													
R2000-0008	D-Strip	pm	f		25.47	1.7022	0.3916	0.1393				0.0364	
R2000-0005	D-Strip	pm	f		21.7	1.5577	0.294	0.086				0.0417	
R2000-0003	D-Strip	pm	f		20.25	1.2199	0.3184	0.0826				0.0464	
R2000-0004	D-Strip	pm	m		16.95	0.8712	0.2511	0.0742	0.2124	0.2219	0.4343		
R2000-0006	D-Strip	pm	m		16.97	0.9021	0.3191	0.0444	0.2131	0.2172	0.4303		
R2000-0007	D-Strip	pm	m		17.97	1.0666	0.2914	0.0834	0.2245	0.2399	0.4644		
				6	Mean	19.9	1.220	0.311	0.085	0.217	0.226	0.443	0.042
					SD	3.3	0.344	0.047	0.031	0.007	0.012	0.019	0.005
					n	6	6	6	6	3	3	3	3
R2000-0020	H1	pm	f		14.9	0.6799	0.2969	0.0588				0.0289	
R2000-0013	H1	pm	f		21.44	1.4144	0.3102	0.053				0.0474	
R2000-0017	H1	pm	m		20.75	1.2154	0.282	0.1089	0.1277	0.1367	0.2644		
R2000-0014	H1	pm	m		18.15	0.8806	0.2554	0.0757	0.013	0.0093	0.0223		
R2000-0015	H1	pm	f		18.3	1.2035	0.3076	0.0473				0.0212	
R2000-0018	H1	pm	m		22.19	1.2320	0.299	0.1362	0.2539	0.2603	0.5142		
R2000-0012	H1	pm	m		19.01	0.9715	0.2631	0.1149	0.0352	0.0312	0.0664		
R2000-0016	H1	pm	f		19.22	1.2334	0.3134	0.0864				0.0211	
R2000-0021	H1	pm	f		17.36	0.9506	0.2742	0.0579				0.018	
R2000-0019	H1	pm	m		22.01	1.2254	0.2929	0.0888	0.1949	0.201	0.3959		
				10	Mean	19.3	1.101	0.289	0.083	0.125	0.128	0.253	0.027
					SD	2.3	0.220	0.020	0.030	0.103	0.108	0.210	0.012
					n	10	10	10	10	5	5	5	5

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass (grams)	Liver (grams)	Kidneys (grams)	Spleen (grams)	R. Testis (grams)	L. Testis (grams)	Testes (T) (grams)	Ovaries (grams)		
R2000-0028	H2	pm	m		22.87	1.5206	0.2802	0.1487	0.1291	0.137	0.2661			
R2000-0029	H2	pm	m		17.91	1.4096	0.263	0.3272	0.0215	0.0216	0.0431			
R2000-0032	H2	pm	m		15.72	0.7096	0.2228	0.0607	0.0109	0.0131	0.024			
R2000-0030	H2	pm	f		18.9	1.1903	0.3791	0.1687				0.0294		
R2000-0033	H2	pm	m		16.12	0.8683	0.248	0.0548	0.0155	0.012	0.0275			
R2000-0026	H2	pm	f		20.69	1.1727	0.283	0.0614				0.0135		
R2000-0025	H2	pm	f		24.98	1.8612	0.4479	0.3565				0.0495		
R2000-0031	H2	pm	m		16.45	1.0400	0.3054	0.0729	0.0643	0.059	0.1233			
R2000-0034	H2	pm	f		24.76	1.6459	0.3362	0.0985				0.0215		
R2000-0027	H2	pm	f		20.25	1.1748	0.3731	0.0965				0.0267		
					10	Mean	19.9	1.259	0.314	0.145	0.048	0.049	0.097	0.028
						SD	3.5	0.354	0.070	0.111	0.050	0.053	0.103	0.013
						n	10	10	10	10	5	5	5	5
R2000-0053	L1	pm	m		19.1	1.2422	0.2646	0.094	0.1747	0.1967	0.3714			
R2000-0049	L1	pm	m		18.24	1.3599	0.2618	0.0907	0.025	0.0197	0.0447			
R2000-0056	L1	pm	f		29.15	1.6908	0.3722	0.0592				0.0367		
R2000-0048	L1	pm	m		21.33	1.7223	0.4001	0.1599	0.2308	0.2667	0.4975			
R2000-0054	L1	pm	m		17.68	0.9297	0.2884	0.169	0.0884	0.0842	0.1726			
R2000-0045	L1	pm	f		23.98	1.9299	0.3556	0.0827				0.0356		

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass (grams)	Liver (grams)	Kidneys (grams)	Spleen (grams)	R. Testis (grams)	L. Testis (grams)	Testes (T) (grams)	Ovaries (grams)	
R2000-0051	L1	pm	f		21.49	1.5943	0.2958	0.0924				0.0354	
R2000-0046	L1	pm	m		20.67	1.4544	0.3106	0.0709	0.1281	0.1296	0.2577		
R2000-0055	L1	pm	f		20.26	2.0603	0.3111	0.1461				0.0446	
R2000-0050	L1	pm	m		21.84	1.9912	0.445	0.142	0.2072	0.2028	0.41		
R2000-0047	L1	pm	f		22.63	1.7194	0.304	0.1075				0.0289	
R2000-0052	L1	pm	m		20.84	1.9455	0.4143	0.1547	0.2111	0.2101	0.4212		
					12	Mean	21.4	1.637	0.335	0.114	0.152	0.159	0.311
						SD	3.0	0.340	0.061	0.038	0.075	0.085	0.160
						n	12	12	12	12	7	7	5
R2000-0061	L2	pm	m		21.52	1.4314	0.3199	0.2639	0.0233	0.0211	0.0444		
R2000-0064	L2	pm	m		22.38	1.4566	0.3309	0.1561	0.0762	0.0895	0.1657		
R2000-0057	L2	pm	m		20.62	1.3685	0.3133	0.2851	0.0537	0.05	0.1037		
R2000-0059	L2	pm	m		18.24	1.1534	0.26	0.1194	0.027	0.0299	0.0569		
R2000-0065	L2	pm	m		25.67	2.7046	0.383	0.1406	0.1003	0.108	0.2083		
R2000-0063	L2	pm	m		18.94	0.9802	0.263	0.096	0.0138	0.0197	0.0335		
R2000-0067	L2	pm	f		18.1	1.3092	0.3231	0.0878				0.025	
R2000-0058	L2	pm	m		19.16	1.3580	0.3503	0.1106	0.0226	0.0181	0.0407		
R2000-0062	L2	pm	f		17.43	1.1688	0.2988	0.0752				0.012	
R2000-0060	L2	pm	f		18.54	1.2669	0.3216	0.0588				0.0222	
R2000-0066	L2	pm	f		27.72	4.1292	0.5694	0.1128				0.0333	
					11	Mean	20.8	1.666	0.339	0.137	0.045	0.048	0.093
						SD	3.3	0.932	0.084	0.074	0.033	0.037	0.069
						n	11	11	11	11	7	7	4

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass (grams)	Liver (grams)	Kidneys (grams)	Spleen (grams)	R. Testis (grams)	L. Testis (grams)	Testes (T) (grams)	Ovaries (grams)		
R2000-0079	M1	pm	m		18.86	0.9842	0.252	0.0879	0.034	0.0487	0.0827			
R2000-0082	M1	pm	m		19.01	0.8444	0.3198	0.0973	0.006	0.0083	0.0143			
R2000-0081	M1	pm	m		20.04	0.9337	0.2672	0.0869	0.0509	0.053	0.1039			
R2000-0078	M1	pm	f		21.62	1.2754	0.344	0.1722				0.0238		
R2000-0084	M1	pm	f		23.24	1.4736	0.2968	0.1805				0.0303		
R2000-0086	M1	pm	f		17.75	0.9598	0.2316	0.0584				0.0261		
R2000-0083	M1	pm	m		21.75	1.0221	0.2606	0.1348	0.0155	0.0161	0.0316			
R2000-0085	M1	pm	m		18.01	0.8052	0.2499	0.0561	0.0111	0.0167	0.0278			
R2000-0080	M1	pm	m		21.72	1.0323	0.2969	0.0577	0.0713	0.0724	0.1437			
R2000-0087	M1	pm	f		19.42	1.3253	0.277	0.1254				0.034		
R2000-0088	M1	pm	f		19.38	1.1538	0.3495	0.0937				0.0302		
					11	Mean	20.1	1.074	0.286	0.105	0.031	0.036	0.067	0.029
						SD	1.8	0.210	0.039	0.044	0.026	0.026	0.051	0.004
						n	11	11	11	11	6	6	6	5
R2000-0089	M2	pm	f		24.18	1.9299	0.3654	0.2375					0.0227	
R2000-0091	M2	pm	f		15.87	0.7898	0.2867	0.0626						
R2000-0092	M2	pm	f		17.86	1.2207	0.31	0.052					0.0186	
R2000-0093	M2	pm	m		21.04	1.2467	0.3201	0.1496	0.1721	0.1833	0.3554			
R2000-0090	M2	pm	m		18.3	1.1676	0.2644	0.0748	0.1788	0.1798	0.3586			
R2000-0095	M2	pm	m		18.77	1.1070	0.2342	0.0684	0.1923	0.2015	0.3938			
R2000-0094	M2	pm	m		14.85	0.7849	0.2443	0.0061	0.0074	0.0063	0.0137			
R2000-0097	M2	pm	m		18.6	1.1218	0.2174	0.0401	0.0568	0.051	0.1078			
R2000-0096	M2	pm	f		14.75	1.2764	0.2741	0.0541					0.0233	
R2000-0098	M2	pm	f		17.21	1.6312	0.2738	0.0706					0.0191	
					10	Mean	18.1	1.228	0.279	0.082	0.121	0.124	0.246	0.021
						SD	2.9	0.346	0.044	0.066	0.084	0.089	0.173	0.002
						n	10	10	10	10	5	5	5	4

Continued

**Table 6-30.** Continued

Sample ID	Site	Species	Sex	Site	Body Mass (grams)	Liver (grams)	Kidneys (grams)	Spleen (grams)	R. Testis (grams)	L. Testis (grams)	Testes (T) (grams)	Ovaries (grams)	
R2000-0117	Smarco	pm	f		24.36	0.9495	0.248	0.1002				0.0445	
R2000-0116	Smarco	pm	m		19.51	1.0824	0.2747	0.0654	0.1146	0.1125	0.2271		
R2000-0118	Smarco	pm	m		18.12	0.7793	0.2565	0.082	0.1593	0.152	0.3113		
R2000-0119	Smarco	pm	f		18.45	1.2730	0.2715	0.0852				0.0244	
R2000-0120	Smarco	pm	m		21.75	1.3229	0.2699	0.1327	0.2568	0.2606	0.5174		
R2000-0121	Smarco	pm	m		17.18	0.9630	0.2479	0.0957	0.0064	0.0126	0.019		
R2000-0122	Smarco	pm	m		15.76	0.8686	0.2701	0.0694	0.0149	0.0111	0.026		
R2000-0115	Smarco	pm	f		20.55	1.3793	0.25	0.094				0.0183	
R2000-0114	Smarco	pm	f		42.14	1.6167	0.32	0.2436				0.0316	
					9	Mean	22.0	1.137	0.268	0.108	0.110	0.110	0.220
						SD	8.0	0.276	0.022	0.055	0.105	0.105	0.209
						n	9	9	9	9	5	5	4
R2000-0137	Smarts	pm	f		19.32	1.0733	0.2917	0.1				0.0164	
R2000-0135	Smarts	pm	f		21.79	1.1391	0.2907	0.0988				0.0343	
R2000-0136	Smarts	pm	m		22.94	1.5218	0.3535	0.1187	0.1925	0.1941	0.3866		
R2000-0134	Smarts	pm	m		18.05	0.8401	0.244	0.0923	0.0294	0.023	0.0524		
R2000-0131	Smarts	pm	m		20.07	1.1096	0.3076	0.081	0.2091	0.224	0.4331		
R2000-0130	Smarts	pm	f		22.17	0.9592	0.2805	0.0698				0.0252	
R2000-0138	Smarts	pm	m		19.03	1.2121	0.3344	0.1247	0.1635	0.1669	0.3304		
R2000-0133	Smarts	pm	m		21.18	1.1123	0.3583	0.1468	0.2671	0.2658	0.5329		
R2000-0132	Smarts	pm	f		26.54	1.1640	0.2818	0.0824				0.0752	
R2000-0129	Smarts	pm	f		24.05	1.4426	0.3038	0.1282				0.0412	
					10	Mean	21.5	1.157	0.305	0.104	0.172	0.175	0.347
						SD	2.6	0.202	0.035	0.025	0.088	0.092	0.181
						n	10	10	10	10	5	5	5

**Table 6-35.** Deer Mouse Abundance Estimates, Capture Probability and Trap Mortalities by Session for 1999 Grids

Grid	Session																			
	1				2				3				4				5			
	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>
High 1	19	1.18	0.68	1	21	2.74	0.63	0	34	3.14	0.63	0	27	3.00	0.60	0	26	3.25	0.53	0
High 2	11	1.18	0.63	0	18	2.03	0.51	0	16	1.95	0.48	1	29	3.94	0.35	0	27	4.99	0.27	0
Low 1	16	2.03	0.45	2	27	5.25	0.27	0	12	1.18	0.69	0	15	2.03	0.55	0	15	1.28	0.69	0
Low 2	10	1	0.56	1	14	2.81	0.58	0	15	2.36	0.61	0	37	6.65	0.29	0	16	2.35	0.54	0
Medium 1	34	3.53	0.47	1	41	3.78	0.49	1	61	4.45	0.51	1	57	5.33	0.41	0	64	7.60	0.34	0
Medium 2	8	1	0.56	0	10	1	0.50	0	6	1	0.58	0	10	1	0.44	0	6	1	0.47	0
Anaconda Ponds ARTS	19	2.62	0.50	0	17	2.87	0.34	0	26	5.27	0.24	0	17	3.71	0.36	0	15	1.76	0.55	0
Opportunity Ponds ARTS	2	1.00	0.58	0	3	1.00	0.55	0	5	1.00	0.49	0	2	1.00	0.43	0	0	0.00	0.00	0
Smelter Hill ARCO	35	6.29	0.31	0	34	5.16	0.35	0	48	7.60	0.26	0	45	6.35	0.32	1	31	4.15	0.41	0
Smelter Hill ARTS	35	3.71	0.51	0	57	4.95	0.47	0	57	5.80	0.41	1	55	5.79	0.45	0	31	3.57	0.45	0

N = abundance estimate, SE = standard error for abundance estimate, C<sub>P</sub> = capture probability, T<sub>M</sub> = trap mortalities

**Table 6-36.** Deer Mouse Abundance Estimates, Capture Probability and Trap Mortalities by Session for 2000 Grids.

Grid	Session																			
	1				2				3				4				5			
	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>	N	SE	C <sub>P</sub>	T <sub>M</sub>
High 1	26	2.46	0.58	0	29	2.78	0.63	0	32	3.79	0.43	1	21	2.14	0.50	0	21	2.14	0.57	3
High 2	20	3.04	0.43	0	23	3.35	0.46	0	18	1.75	0.61	0	22	3.08	0.46	0	22	3.35	0.47	0
Low 1	52	6.16	0.38	1	27	2.83	0.59	1	25	2.77	0.53	1	29	4.98	0.36	0	21	2.14	0.62	0
Low 2	44	3.53	0.48	0	36	3.03	0.56	0	24	3.03	0.49	0	24	4.07	0.42	0	26	3.28	0.43	0
Medium 1	29	2.60	0.61	2	41	3.46	0.45	1	34	4.19	0.34	0	40	4.39	0.34	0	23	3.09	0.45	1
Medium 2	7	1.00	0.50	0	6	1.00	0.54	0	16	2.49	0.53	0	10	0.72	0.64	0	15	2.14	0.47	0
Drag Strip ARTS	9	1.00	0.50	0	4	1.00	0.52	0	11	1.00	0.48	0	11	1.00	0.48	1	2	1.00	0.48	0
Smelter Hill ARCO	26	3.67	0.38	0	32	3.26	0.38	0	42	4.41	0.41	0	42	3.52	0.53	0	39	7.92	0.27	0
Smelter Hill ARTS	27	2.14	0.64	0	34	3.03	0.55	0	47	3.14	0.56	0	41	3.28	0.55	0	31	2.90	0.54	0

N = abundance estimate, SE = standard error for abundance estimate, C<sub>P</sub> = capture probability, T<sub>M</sub> = trap mortalities

**Table 6-41.** Fractions of Meadow Survival by Session for 1999 Grids.

Grid	Session <sup>1</sup> and Survival Parameter <sup>2</sup>																			
	1				2				3				4							
	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F
High 1	0 6	0 5	0 1	0 3	0 3	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 2	0 0	0 1	0 1
High 2	7 7	3 3	4 4	5 5	2 2	5 9	3 4	2 5	3 6	2 3	6 8	4 4	2 4	4 5	2 3	10 16	7 13	3 3	6 9	4 7
Medium 1	0 0	0 0	0 0	0 0	0 0	2 4	0 1	2 3	2 3	0 1	0 4	0 0	0 4	0 0	0 0	3 4	3 3	0 1	2 2	1 2
Medium 2	1 3	1 2	0 1	0 0	1 3	3 5	2 4	1 1	0 2	3 3	3 5	1 1	2 4	1 2	2 3	3 8	2 4	1 4	3 7	0 1
Low 1	2 5	2 4	0 1	1 4	1 1	4 13	4 13	0 0	1 8	3 5	0 3	0 3	0 0	0 1	0 2	0 1	0 1	0 0	0 1	0 0
Low 2	14 30	11 18	2 11	7 17	7 13	15 19	14 18	1 1	7 8	8 11	10 21	10 20	0 1	7 12	3 9	5 11	5 11	0 0	3 8	2 3
Anaconda Ponds ARTS	0 0	0 0	0 0	0 0	0 0	12 19	7 9	5 10	3 7	9 12	10 12	9 9	1 3	2 4	8 8	9 16	8 14	1 2	2 4	7 12
Opportunity Ponds ARTS	0 3	0 2	0 1	0 3	0 0	3 4	3 4	0 0	2 2	1 2	2 4	2 4	0 0	1 2	1 2	2 4	1 2	1 2	0 2	2 2
Smelter Hill ARCO	0 0	0 0	0 0	0 0	0 0	11 13	10 11	1 1	8 9	3 4	11 14	11 14	0 0	5 7	6 7	11 14	10 13	1 1	4 6	7 8
Smelter Hill ARTS	1 3	1 2	0 1	1 1	0 2	9 13	6 9	3 4	2 6	7 7	12 19	11 18	1 1	3 8	9 11	7 13	7 13	0 0	2 2	5 10

<sup>1</sup> Sessions 1 to 4 consisted of 4-6 consecutive days of trapping separated by 14–15 days from May 25 to July 291, 1999

<sup>2</sup> Survival Parameters include: T = total, A = adult, NA = non-adult, M = male, and F = female.

Numerator = total known to survive to next session, and denominator = total number of deer mice captured that session.

**Table 6-42.** Fractions of Deer Mouse Survival by Session for 1999 Grids.

Grid	Session <sup>1</sup> and Survival Parameter <sup>2</sup>																			
	1					2					3					4				
	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F
High 1	$\frac{12}{18}$	$\frac{8}{10}$	$\frac{4}{8}$	$\frac{4}{6}$	$\frac{8}{12}$	$\frac{19}{20}$	$\frac{13}{13}$	$\frac{6}{7}$	$\frac{10}{10}$	$\frac{9}{10}$	$\frac{25}{33}$	$\frac{12}{15}$	$\frac{13}{18}$	$\frac{11}{16}$	$\frac{14}{17}$	$\frac{18}{25}$	$\frac{9}{12}$	$\frac{9}{13}$	$\frac{9}{13}$	$\frac{9}{12}$
High 2	$\frac{7}{11}$	$\frac{6}{8}$	$\frac{1}{3}$	$\frac{4}{7}$	$\frac{3}{4}$	$\frac{15}{16}$	$\frac{8}{9}$	$\frac{7}{7}$	$\frac{11}{12}$	$\frac{4}{4}$	$\frac{14}{14}$	$\frac{6}{6}$	$\frac{8}{8}$	$\frac{8}{8}$	$\frac{6}{6}$	$\frac{17}{22}$	$\frac{5}{11}$	$\frac{11}{11}$	$\frac{10}{14}$	$\frac{7}{9}$
Medium 1	$\frac{22}{29}$	$\frac{13}{17}$	$\frac{9}{12}$	$\frac{13}{18}$	$\frac{9}{11}$	$\frac{33}{35}$	$\frac{14}{16}$	$\frac{19}{19}$	$\frac{20}{22}$	$\frac{13}{13}$	$\frac{41}{52}$	$\frac{12}{14}$	$\frac{29}{38}$	$\frac{25}{31}$	$\frac{16}{21}$	$\frac{32}{46}$	$\frac{8}{13}$	$\frac{24}{33}$	$\frac{21}{31}$	$\frac{11}{15}$
Medium 2	$\frac{5}{8}$	$\frac{2}{3}$	$\frac{3}{5}$	$\frac{3}{5}$	$\frac{2}{3}$	$\frac{6}{9}$	$\frac{3}{5}$	$\frac{3}{4}$	$\frac{3}{5}$	$\frac{3}{4}$	$\frac{4}{6}$	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{5}{9}$	$\frac{4}{8}$	$\frac{1}{1}$	$\frac{2}{5}$	$\frac{3}{4}$
Low 1	$\frac{5}{12}$	$\frac{2}{5}$	$\frac{3}{7}$	$\frac{2}{6}$	$\frac{3}{6}$	$\frac{10}{17}$	$\frac{5}{9}$	$\frac{5}{8}$	$\frac{6}{10}$	$\frac{4}{7}$	$\frac{9}{12}$	$\frac{5}{7}$	$\frac{4}{5}$	$\frac{4}{6}$	$\frac{5}{6}$	$\frac{7}{13}$	$\frac{5}{7}$	$\frac{2}{6}$	$\frac{2}{4}$	$\frac{5}{9}$
Low 2	$\frac{8}{9}$	$\frac{6}{7}$	$\frac{2}{2}$	$\frac{5}{6}$	$\frac{3}{3}$	$\frac{9}{13}$	$\frac{9}{12}$	$\frac{0}{1}$	$\frac{4}{7}$	$\frac{5}{6}$	$\frac{11}{15}$	$\frac{8}{12}$	$\frac{3}{3}$	$\frac{6}{8}$	$\frac{5}{7}$	$\frac{12}{21}$	$\frac{7}{10}$	$\frac{5}{12}$	$\frac{5}{11}$	$\frac{7}{11}$
Anaconda Ponds ARTS	$\frac{10}{18}$	$\frac{4}{6}$	$\frac{6}{12}$	$\frac{4}{8}$	$\frac{6}{10}$	$\frac{10}{16}$	$\frac{5}{9}$	$\frac{5}{7}$	$\frac{3}{6}$	$\frac{7}{10}$	$\frac{10}{16}$	$\frac{2}{4}$	$\frac{8}{12}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{11}{13}$	$\frac{1}{2}$	$\frac{10}{11}$	$\frac{6}{7}$	$\frac{5}{6}$
Opportunity Ponds ARTS	$\frac{2}{2}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{2}{2}$	$\frac{0}{0}$	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{0}{0}$	$\frac{1}{2}$	$\frac{1}{1}$	$\frac{2}{5}$	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{0}{2}$	$\frac{0}{1}$	$\frac{0}{1}$	$\frac{0}{1}$	$\frac{0}{1}$
Smelter Hill ARCO	$\frac{18}{22}$	$\frac{10}{14}$	$\frac{8}{8}$	$\frac{11}{15}$	$\frac{7}{7}$	$\frac{22}{25}$	$\frac{19}{22}$	$\frac{3}{3}$	$\frac{11}{14}$	$\frac{10}{10}$	$\frac{22}{29}$	$\frac{20}{25}$	$\frac{2}{4}$	$\frac{8}{10}$	$\frac{14}{19}$	$\frac{14}{30}$	$\frac{12}{24}$	$\frac{2}{6}$	$\frac{5}{11}$	$\frac{9}{19}$
Smelter Hill ARTS	$\frac{29}{30}$	$\frac{19}{20}$	$\frac{10}{10}$	$\frac{13}{14}$	$\frac{16}{16}$	$\frac{40}{48}$	$\frac{31}{38}$	$\frac{9}{10}$	$\frac{19}{24}$	$\frac{21}{24}$	$\frac{31}{44}$	$\frac{23}{33}$	$\frac{8}{11}$	$\frac{15}{20}$	$\frac{16}{24}$	$\frac{20}{44}$	$\frac{16}{38}$	$\frac{4}{6}$	$\frac{8}{17}$	$\frac{12}{27}$

<sup>1</sup> Sessions 1 to 4 consisted of 4-6 consecutive days of trapping separated by 14–15 days from May 25 to July 291, 1999

<sup>2</sup> Survival Parameters include: T = total, A = adult, NA = non-adult, M = male, and F = female.

Numerator = total known to survive to next session, and denominator = total number of deer mice captured that session.

**Table 6-43.** Fractions of Meadow Vole Survival by Session for 2000 Grids.

Grid	Session <sup>1</sup> and Survival Parameter <sup>2</sup>																			
	1				2				3				4							
	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F
High 1	0 0	0 0	0 0	0 0	0 0	0 2	0 2	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
High 2	0 0	0 0	0 0	0 0	0 0	1 1	1 1	0 0	0 0	1 1	3 8	2 3	1 5	0 4	3 4	3 5	3 5	0 0	1 2	2 3
Medium 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 3	1 3	0 0	1 1	0 2	1 3	0 1	1 2	0 1	1 2
Medium 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 1	0 0
Low 1	0 0	0 0	0 0	0 0	0 0	2 2	2 2	0 0	1 1	1 1	0 2	0 2	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0
Low 2	1 1	1 1	0 0	1 1	0 0	1 5	1 4	0 1	1 3	0 2	0 1	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0
Drag Strip ARTS	2 5	0 1	2 4	2 3	0 2	4 13	1 3	3 10	2 10	2 3	2 3	1 1	1 2	1 2	1 1	3 3	3 3	0 0	1 1	2 2
Smelter Hill ARCO	2 2	2 2	0 0	0 0	2 2	13 21	8 12	5 9	9 13	4 8	7 20	5 12	2 8	3 15	4 5	6 7	5 5	1 2	3 3	3 4
Smelter Hill ARTS	1 2	1 1	0 1	0 0	1 2	3 3	3 3	0 0	1 1	2 2	2 2	2 2	0 0	1 1	1 1	2 4	2 4	0 0	1 2	1 2

<sup>1</sup> Sessions 1 to 4 consisted of 5-8 consecutive days of trapping separated by 11-14 days from May 22 to July 31, 2000.

<sup>2</sup> Survival Parameters include: T = total, A = adult, NA = non-adult, M = male, and F = female.

Numerator = total known to survive to next session, and denominator = total number of deer mice captured that session.

**Table 6-44.** Fractions of Deer Mouse Survival by Session for 2000 Grids.

Grid	Session <sup>1</sup> and Survival Parameter <sup>2</sup>																9			
	6					7					8					9				
	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F	T	A	NA	M	F
High 1	$\frac{21}{26}$	$\frac{10}{13}$	$\frac{11}{13}$	$\frac{10}{13}$	$\frac{11}{13}$	$\frac{19}{28}$	$\frac{12}{19}$	$\frac{7}{9}$	$\frac{8}{13}$	$\frac{11}{15}$	$\frac{15}{27}$	$\frac{5}{11}$	$\frac{10}{15}$	$\frac{8}{13}$	$\frac{7}{14}$	$\frac{13}{19}$	$\frac{5}{10}$	$\frac{8}{9}$	$\frac{6}{9}$	$\frac{7}{10}$
High 2	$\frac{13}{18}$	$\frac{6}{8}$	$\frac{7}{10}$	$\frac{9}{10}$	$\frac{4}{8}$	$\frac{14}{20}$	$\frac{6}{10}$	$\frac{8}{10}$	$\frac{10}{14}$	$\frac{4}{6}$	$\frac{13}{17}$	$\frac{8}{10}$	$\frac{5}{7}$	$\frac{9}{9}$	$\frac{4}{8}$	$\frac{16}{20}$	$\frac{7}{9}$	$\frac{9}{11}$	$\frac{9}{12}$	$\frac{7}{8}$
Medium 1	$\frac{18}{27}$	$\frac{6}{10}$	$\frac{12}{17}$	$\frac{10}{13}$	$\frac{8}{14}$	$\frac{24}{37}$	$\frac{12}{20}$	$\frac{12}{17}$	$\frac{14}{19}$	$\frac{10}{18}$	$\frac{22}{28}$	$\frac{15}{19}$	$\frac{7}{9}$	$\frac{12}{14}$	$\frac{10}{14}$	$\frac{15}{33}$	$\frac{9}{19}$	$\frac{6}{13}$	$\frac{10}{19}$	$\frac{5}{14}$
Medium 2	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{0}{0}$	$\frac{0}{4}$	$\frac{2}{3}$	$\frac{4}{6}$	$\frac{3}{5}$	$\frac{1}{1}$	$\frac{3}{5}$	$\frac{1}{1}$	$\frac{8}{16}$	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{5}{11}$	$\frac{3}{5}$	$\frac{7}{10}$	$\frac{3}{4}$	$\frac{4}{6}$	$\frac{4}{7}$	$\frac{3}{3}$
Low 1	$\frac{21}{42}$	$\frac{8}{15}$	$\frac{13}{27}$	$\frac{13}{19}$	$\frac{8}{23}$	$\frac{17}{25}$	$\frac{11}{14}$	$\frac{6}{11}$	$\frac{8}{15}$	$\frac{9}{10}$	$\frac{17}{23}$	$\frac{12}{16}$	$\frac{5}{7}$	$\frac{9}{15}$	$\frac{8}{8}$	$\frac{15}{23}$	$\frac{9}{13}$	$\frac{6}{10}$	$\frac{7}{11}$	$\frac{8}{12}$
Low 2	$\frac{29}{41}$	$\frac{14}{22}$	$\frac{14}{19}$	$\frac{14}{17}$	$\frac{14}{24}$	$\frac{21}{34}$	$\frac{17}{27}$	$\frac{4}{7}$	$\frac{11}{17}$	$\frac{10}{17}$	$\frac{16}{22}$	$\frac{11}{17}$	$\frac{5}{5}$	$\frac{11}{12}$	$\frac{5}{10}$	$\frac{12}{20}$	$\frac{8}{13}$	$\frac{4}{7}$	$\frac{9}{10}$	$\frac{3}{10}$
Drag Strip ARTS	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{2}{6}$	$\frac{1}{4}$	$\frac{2}{4}$	$\frac{3}{4}$	$\frac{3}{3}$	$\frac{0}{1}$	$\frac{1}{1}$	$\frac{2}{3}$	$\frac{5}{10}$	$\frac{4}{7}$	$\frac{1}{3}$	$\frac{2}{4}$	$\frac{3}{6}$	$\frac{2}{9}$	$\frac{1}{5}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{5}$
Smelter Hill ARCO	$\frac{15}{23}$	$\frac{7}{11}$	$\frac{8}{12}$	$\frac{7}{8}$	$\frac{8}{15}$	$\frac{25}{30}$	$\frac{19}{22}$	$\frac{6}{8}$	$\frac{10}{12}$	$\frac{15}{18}$	$\frac{27}{36}$	$\frac{20}{26}$	$\frac{7}{10}$	$\frac{12}{16}$	$\frac{15}{20}$	$\frac{19}{38}$	$\frac{19}{20}$	$\frac{10}{18}$	$\frac{13}{18}$	$\frac{6}{20}$
Smelter Hill ARTS	$\frac{20}{25}$	$\frac{13}{15}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{12}{15}$	$\frac{30}{32}$	$\frac{20}{22}$	$\frac{10}{10}$	$\frac{15}{15}$	$\frac{15}{17}$	$\frac{33}{45}$	$\frac{19}{28}$	$\frac{14}{17}$	$\frac{14}{21}$	$\frac{19}{24}$	$\frac{21}{38}$	$\frac{13}{22}$	$\frac{8}{16}$	$\frac{8}{17}$	$\frac{13}{21}$

<sup>1</sup> Sessions 1 to 4 consisted of 5-8 consecutive days of trapping separated by 11-14 days from May 22 to July 31, 2000.

<sup>2</sup> Survival Parameters include: T = total, A = adult, NA = non-adult, M = male, and F = female.

Numerator = total known to survive to next session, and denominator = total number of deer mice captured that session.

## 7 PASSERINES APPENDIX TABLES

**Table 7-1A.** Nest box placement and use of starling and bluebird boxes in 1999 and 2000 at the Anaconda Smelter Site.

Site or Box ID <sup>2</sup>	Activity <sup>1</sup>		No. of Boxes	Description
	1999	2000		
<b>Starling Arrays</b>				
A	NO	NO	20	Location: East-facing slope south of Smelter Hill, Split array; 10 boxes on either side of Aspen grove Ephemeral pond near the eastern row of boxes
B	BB,TS	BB,BC	30	Location: Saddle just south of Smelter Hill. Array follows aspen tree line northward toward Smelter
C	NO	BB	10	Location: Steep north-facing slope just south of Smelter Hill Live and dead aspen and sporadic vegetation.
D	NO	NO	20	Location: Northeast slope at the bottom of Smelter Hill Array follows northeast along aspen tree line. Natural warm spring east across field.
E	NO	NO	5	Location: Upslope from D, across road. Limited aspen and sporadic vegetation(1999). Grassy(2000).
F	BB	BB,TS	10	Location: ARTS plot at base of Smelter stack. Array ran east west following ditch around hill. Limited replanted grasses. Exposed to high winds.
G	NO	BB	10	Location: ARTS plot north, downhill of Smelter stack. Array split by road. Limited replanted grasses.
H	BB	BB,TS	15	Location: Remediated field northeast at base of Smelter Hill. 5 boxes parallel road, 10 boxes perpendicular. Limited replanted grasses.

Continued

**Table 7-1A.** Continued

Site or Box ID <sup>2</sup>	Activity	No. of Boxes	Description
1999	2000		
<u>Starling Arrays</u> Continued			
I	NO	BB,TS	20      Location: ARTS plot along southern edge of Anaconda Pond Boxes follow the northwest corner of plot.
J	TS	TS	14      Location: ARTS plot in center of Anaconda Pond Boxes follow the northwest corner of plot.
K	ES	ES,TS BB	18      Location: Field bordering Warm Springs Creek. Array along Cottonwoods that follow creek. East of Galen Rd. Limited vegetation and Cottonwoods.
L	ES	ES,BC	20      Location: Field bordering Warm Springs Creek. West of Galen Rd., NE of Site K. (soil tilled and limed, 1999) No vegetation (1999). Limited grass and forbs (2000)
M	NO	BB	15      Location: Hillside east of Old works, west Anaconda Speedway Arrays along tree line and ditch, limited vegetation.
N	ES,TS	ES,TS	20      Location: Northwest corner of Opportunity Ponds Cell-C. Array follows border of tree grove. Well vegetated. Across Highway 48 from Warm Springs creek.
O	ES	BB,TS	20      Location: South of Opportunity Pond Cell-D. Just west of I-90. South facing array following tree line. Standing pools just west of array at base of berm.
P	TS	ES,TS	15      Location: ARTS plot in middle of Opportunity Pond Cell-D Array follows northeast corners.

Continued

**Table 7-1A.** Continued

Site or Box ID <sup>2</sup>	Activity	No. of Boxes		Description
	1999	2000		
<u>Starling Arrays</u>				Continued
Q	ES,TS	NO	20	Location: East of Opportunity Pond Cell-C berm. Split array: 10 boxes along east-west tree lines. 3 bluebird boxes in field just east of main array.
R	NO	ES,TS	22	Location: 1999 – South of Opportunity Ponds, near the border of Cells B and C. Location: 2000 – North of Warm Springs Ponds W.M.A. Surrounding several tree groves, at last settling pond.
<u>Bluebird Boxes</u>				
(1999)	(2000)			
1-2	1-2	NO	NO	2 Location: Associated with starling array Site A.
3-4	3-4	NO	NO	2 Location: Associated with starling array Site B.
5	5	NO	NO	1 Location: Associated with starling array Site C.
6-8	6-8	NO	NO	3 Location: Associated with starling array Site D.
9	9	NO	NO	1 Location: Associated with starling array Site E.
10-11	10-11	NO	NO	2 Location: Associated with starling array Site G.
12-14	12-14	NO	NO	3 Location: Associated with starling array Site H.
15		NO	NO	1 Location: Associated with starling array Site I.
16-17		NO	NO	2 Location: Associated with starling array Site J.
17-19	15-17	NO	NO	3 Location: On fence along road to the site-laboratory.

Continued

**Table 7-1A.** Continued

Site or Box ID <sup>2</sup>	Activity 1999	No. of Boxes 2000	Description
<u>Bluebird boxes</u> Continued			
20-21	18-19	NO	NO      2      Location: Associated with starling array Site K.
22-23	20-21	NO	NO      2      Location: Associated with starling array Site L.
24	22	NO	NO      1      Location: Associated with starling array Site M.
25-28		NO	NO      4      Location: Home of Hans Lampert. Warm Springs Road.
29-30	23-24	TS	BB      2      Location: Associated with starling array Site N.
31-34	25-28	NO	NO      4      Location: Associated with starling array Site O. 2 boxes on fence parallel to array; 2 boxes at ends of array.
35	29	NO	NO      1      Location: Associated with starling array Site P.
36-41	30-35	NO	TS      6      Location: Associated with starling array Site Q. 2 boxes at ends of array, 1 center. 3 boxes across berm and aligned with boxes at Q
42-44	36-38	BC	BC,TS      3      Location: Associated with starling array Site R (1999).
39-43		NO	NO      5      Location: Associated with starling array Site R (2000). 4 boxes at ends of arrays. 1 box in adjacent field to east.
44-45		NO	NO      2      Location: At Montana State Hospital. On fence next to Kestrel box 47.

1. Activity is designated by the species nesting on the site: ES – European starling, BB – mountain bluebird, TS – tree swallow, BC – black-capped chickadee, NO – No nesting activity at site.  
2. Bluebird box ID numbers were shifted in year 2000. Boxes with single ID numbers were unique in the year indicated. Boxes with two ID numbers reflect change in ID system in 2000.

**Table 7-2A.** Detection Limits and Reporting Limits for Metals Data in Samples Collected from Passerines. Reporting limits are one half detection limits.

Sample Type	Average Sample Mass	As µg/g	Cd µg/g	Zn µg/g	Pb µg/g	Cu µg/g
<b><u>Detection Limits 1999</u></b>						
Blood	1.538	0.441	0.033	0.101	0.200	0.067
Liver	0.785	0.865	0.064	0.199	0.393	0.131
Kidney	0.312	2.18	0.161	0.500	0.988	0.329
Egg	5.071	0.134	0.010	0.031	0.061	0.020
Food	1.078	0.630	0.047	0.145	0.286	0.095
<b><u>Reporting Limits 1999</u></b>						
Blood	1.538	0.221	0.016	0.051	0.100	0.033
Liver	0.785	0.432	0.032	0.099	0.196	0.065
Kidney	0.312	1.088	0.080	0.250	0.494	0.164
Egg	5.071	0.067	0.005	0.015	0.030	0.010
Food	1.078	0.315	0.023	0.072	0.143	0.048
<b><u>Detection Limits 2000</u></b>						
Blood	0.836	0.060	0.003	0.187	0.060	0.123
Liver	1.344	0.037	0.002	0.116	0.037	0.076
Kidney	0.353	0.142	0.007	0.442	0.142	0.291
Food	1.1514	0.043	0.002	0.135	0.043	0.089
<b><u>Reporting Limits 2000</u></b>						
Blood	0.836	0.030	0.001	0.093	0.030	0.061
Liver	1.344	0.019	0.001	0.058	0.019	0.038
Kidney	0.353	0.071	0.004	0.221	0.071	0.145
Food	1.1514	0.022	0.001	0.068	0.022	0.045

**Table 7-3A.** Soil metal and As Concentrations from Passerine Sites.

MT83 East	MT83 North	Date	East	North	Depth Upper Lower	As mg/kg	Cd mg/kg	Cu mg/kg	Pb mg/kg	Zn mg/kg
<b>Site K</b>										
338007	214876	12/5/91	1140041	795728.5	0	0.17		11		
338007	214876	12/5/91	1140041	795728.5	0	0.17	352		2000	159
		12/5/91	1140041	795729	0	0.17		10.6		802
		12/5/91	1140100	797185	0	0.17		14.75		
		12/5/91	1140100	797185.3	0	0.17	1585		3205	658.5
		12/4/91	1140353	798229.7	0	0.17		21		1300
		12/4/91	1140353	798230	0	0.17	1420		6530	673
		12/4/91	1140353	798230	0	0.17		20.8		1680
		8/12/92	1140711	797017	0	0.17	2300		5680	
		#####	1142182	795790	0	0.17	1230		1290	565
		#####	1142182	795790	0	0.17		4		683
		9/30/91	1143429	797745	0	0.17	396		1500	289
		9/30/91	1143429	797745	0	0.17		5.23333		696
		7/29/86	1141498	795812	0	0.25	1470		1070	1200
		7/29/86	1143624	796720	0	0.25	1405		1620	1040
338515	215653		1141808.4	798755.4	0	2	3620		13000	1560
338551	214706		1141929.8	795247.8	0	2	968		1990	696
338551	215011		1141929.8	796377.5	0	2	888		3070	1680
338856	214706		1142958.6	795247.8	0	2	1330		1350	700
338856	215011		1142958.6	796377.5	0	2	1320		2150	1120
339111	215165		1143818.7	796947.9	0	2	946		1380	411
<b>Site K</b>						<b>Mean</b>	<b>1373.6</b>	<b>12.483</b>	<b>3273.9</b>	<b>654.93</b>
						<b>Max</b>	<b>3620</b>	<b>21</b>	<b>13000</b>	<b>1200</b>
						<b>Min</b>	<b>352</b>	<b>4</b>	<b>1070</b>	<b>159</b>
						<b>SD</b>	<b>811.91</b>	<b>6.796</b>	<b>3252.6</b>	<b>372.75</b>
						<b>n</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>7</b>
										<b>14</b>

<b>Site L</b>										
		8/19/92	1137921	798261	0	0.17	544			
		12/4/91	1137958	797483.5	0	0.17	646		3870	374
		12/4/91	1137958	797483.5	0	0.17		15		1570
		12/4/91	1137980	797170.4	0	0.17	211		3190	133
		12/4/91	1137980	797170.4	0	0.17		3		383
		10/1/91	1138007	797227	0	0.17	337			242.5
337643	215253	10/1/91	1138007	797227	0	0.17		7.09		
		9/22/92	1138010	797230	0	0.17	280			
		12/5/91	1138127	795490.9	0	0.17	261		7040	58
		12/5/91	1138127	795490.9	0	0.17		5		1510
		7/29/92	1138921	797423	0	0.17	2275	17.5	10570	1038.5
		12/4/91	1139022	797414.8	0	0.17	635		5510	308

Continued

**Table 7-3A.** Continued

MT83 East	MT83 North	Date	East	North	Depth Upper Lower	As	Cd	Cu	Pb	Zn
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		12/4/91	1139022	797414.8	0	0.17	16			
		12/4/91	1139187	795918.8	0	0.17	325	1460	156	814
		12/4/91	1139187	795918.8	0	0.17	6			
		12/4/91	1139312	796813	0	0.17	805	3840	411	2100
		12/4/91	1139312	796813.3	0	0.17	18			
		7/30/92	1139685	798421.3	0	0.17	1190	11	3230	405
		12/4/91	1139698	798360.7	0	0.17	839	3800	377	1190
		12/4/91	1139698	798361	0	0.17	13.9			
		12/5/91	1140041	795728.5	0	0.17	352	2000	159	802
		12/5/91	1140041	795729	0	0.17	10.6			
		12/5/91	1140100	797185	0	0.17	1585	3205	658.5	1300
		12/5/91	1140100	797185	0	0.17	14.75			
		12/4/91	1140353	798229.7	0	0.17	1420	6530	673	1680
		12/4/91	1140353	798230	0	0.17	20.8			
		8/12/92	1140711	797017	0	0.17	2300	5680		1930
		#####	1142182	795790	0	0.17	1230	1290	565	683
		7/29/86	1141498	795812	0	0.25	1470	1070	1200	1730
338376	215794		1110159	707987	0	2	1910	4840		3520
338515	215653		1110615	707524	0	2	3620	13000		1560
338551	215011		1110733	705419	0	2	928	2530		1188
Site L						Mean	1103	12.203	4591.9	450.57
						Max	3620	20.8	13000	1200
						Min	211	3	1070	58
						SD	870.39	5.5707	3160.5	329.33
						n	21	13	18	15
Site N										18
		1999	SBN01			327	6.3	811	211	709
		1999	SBN02			518	6.5	850	425	855
		1999	SBN03			576	1.8	531	527	483
		1999	SBN04			181	2.8	412	113	419
		1999	SBN05			227	5.7	581	157	614
		1999	SBN06			322	6.4	765	181	764
		1999	SBN07			319	6.2	780	224	707
		1999	SBN08			405	2.4	610	473	458
		1999	SBN09			538	6.3	900	345	745
		1999	SBN10			283	4.6	677	170	598
		1999	SBN11			506	13	1370	323	1280
		1999	SBN12			330	6.9	807	219	716
		1999	SBN13			274	11.5	1080	184	1010
		1999	SBN14			386	10.4	1110	258	1110

Continued

**Table 7-3A. Continued**

MT83 East	MT83 North	Date	East	North	Depth Upper Lower	As mg/kg	Cd mg/kg	Cu mg/kg	Pb mg/kg	Zn mg/kg
Site N Continued										
		1999		SBN15		311	8.3	819	225	967
		1999		SBN16		264	6	803	179	807
		1999		SBN17		346	8.4	916	223	894
		1999		SBN18		400	9.4	1080	259	965
		1999		SBN19		208	7.6	797	139	733
		1999		SBN20						
		1999		SBN21		334	7.5	920	208	830
		1999		SBN22		256	8.4	796	191	764
		1999		SBN23		369	8.7	946	279	947
		1999		SBN24		288	7.6	867	195	874
		1999		SBN25		277	6.7	864	174	701
		1999		SBN26		238	8.6	729	179	762
		1999		SBN27		268	6.4	715	198	647
		1999		SBN28		297	7	801	206	838
		1999		SBN29		87.8	2.7	270	74.2	292
		1999		SBN30		89.5	6.2	428	120	505
		1999		SBN31		289	8.9	829	217	802
		1999		SBN32		288	7	853	198	641
		1999		SBN33		500	8	898	340	876
		1999		SBN34		154	3.7	370	97.1	340
		1999		SBN35		72.6	2.7	212	60.1	303
		1999		SBN36		113	2.8	305	78.8	391
		1999		SBN37		216	6.8	607	137	633
		1999		SBN38		58.5	3	227	59.1	279
		1999		SBN39		153	4.5	546	112	434
		1999		SBN40		156	4.3	447	117	402
Site N										
					Mean	<b>287.83</b>	<b>6.4615</b>	<b>726.38</b>	<b>207.06</b>	<b>694.74</b>
					Max	<b>576</b>	<b>13</b>	<b>1370</b>	<b>527</b>	<b>1280</b>
					Min	<b>58.5</b>	<b>1.8</b>	<b>212</b>	<b>59.1</b>	<b>279</b>
					SD	<b>129.68</b>	<b>2.5732</b>	<b>258.34</b>	<b>105.56</b>	<b>237.06</b>
					n	<b>39</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>39</b>
Site O										
		1999		SBO01		246	2.9	649	94.6	256
		1999		SBO02		268	3.3	717	123	302
		1999		SBO03		935	0.61	535	254	249
		1999		SBO04		726	5.5	4210	203	821
		1999		SBO05		2180	1.1	852	451	496
		1999		SBO06		434	1.8	1740	207	338
		1999		SBO07		487	3.5	2360	159	581

Continued

**Table 7-3A. Continued**

MT83 East	MT83 North	Date	East	North	Depth Upper Lower	As mg/kg	Cd mg/kg	Cu mg/kg	Pb mg/kg	Zn mg/kg
Site O Continued										
		1999		SBO08		595	0.37	625	198	210
		1999		SBO09		715	7.5	5840	245	1050
		1999		SBO10		653	9.8	8160	305	1290
		1999		SBO11		444	0.24	389	275	84.9
		1999		SBO12		177	0.57	485	128	157
		1999		SBO13		1100	0.22	997	368	233
		1999		SBO14		452	6.1	2540	175	597
		1999		SBO15		1160	4.2	4440	359	824
		1999		SBO16		304	0.25	393	143	82.5
		1999		SBO17		1080	12.1	8950	415	1640
		1999		SBO18		433	5.1	2100	153	557
		1999		SBO19		1240	0.71	1090	330	353
		1999		SBO20		759	0.51	803	272	275
		1999		SBO21		436	0.69	992	182	280
		1999		SBO22		384	0.57	303	209	209
		1999		SBO23		214	2.8	543	79.1	224
		1999		SBO24		190	2.5	475	70.3	197
		1999		SBO25		905	2	1120	236	441
		1999		SBO26		1080	0.5	918	439	261
		1999		SBO27		191	2.8	714	77.2	261
		1999		SBO28		223	2.8	586	81.6	232
		1999		SBO29		84.8	1.2	237	30.7	103
		1999		SBO30		213	2.7	503	78.7	210
		1999		SBO31		203	2.9	464	77.2	217
		1999		SBO32		176	2.4	416	65.3	181
		1999		SBO33		202	3.4	457	83.8	243
		1999		SBO34		240	3.8	567	97.8	286
		1999		SBO35		203	2.4	404	69.9	187
		1999		SBO36		269	3.1	507	90.9	234
		1999		SBO37		237	4.1	658	112	306
		1999		SBO38		204	2.8	468	78.6	206
		1999		SBO39		206	3	453	91.1	233
		1999		SBO40		237	3.7	499	88.3	250
<b>Site O</b>						<b>Mean</b> <b>512.15</b>	<b>2.9135</b>	<b>1479</b>	<b>179.9</b>	<b>378.94</b>
						<b>Max</b> <b>2180</b>	<b>12.1</b>	<b>8950</b>	<b>451</b>	<b>1640</b>
						<b>Min</b> <b>84.8</b>	<b>0.22</b>	<b>237</b>	<b>30.7</b>	<b>82.5</b>
						<b>SD</b> <b>426.2</b>	<b>2.5544</b>	<b>2045.6</b>	<b>115.01</b>	<b>328.15</b>
						<b>n</b> <b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

Continued

**Table 7-3.** Continued

MT83 East	MT83 North	Date	East	North	Depth Upper Lower	As	Cd	Cu	Pb	Zn
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<b>Site P</b>										
6/14/05	1156856	800814	0	0.17	18.5	0.7	301.6	54.2	68	
3/10/89	1157697	804190	0	0.17	18	0.61	30.4333	9.46667	34.86667	
3/10/89	1160122	799617	0	0.17	5.6	0.58	21.4667	7.40667	29.13333	
3/10/89	1161901	802993	0	0.17	10.05	0.615	120.4	12.15	96.2	
3/10/89	1161901	802993	0	0.17	17.9	0.88	189	21.3	165	
3/10/89	1162502	801476	0	0.17	6.75	0.64333	107.4	10.9667	105.2333	
3/10/89	1163000	799269	0	0.17	6.94333	0.60667	167.3	17.2	59.03333	
<b>Site P</b>						<b>Mean</b>	<b>11.963</b>	<b>0.6621</b>	<b>133.94</b>	<b>18.956</b>
						<b>Max</b>	<b>18.5</b>	<b>0.88</b>	<b>301.6</b>	<b>54.2</b>
						<b>Min</b>	<b>5.6</b>	<b>0.58</b>	<b>21.467</b>	<b>7.4067</b>
						<b>SD</b>	<b>5.9294</b>	<b>0.1033</b>	<b>97.045</b>	<b>16.25</b>
						<b>n</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
<b>Site Q</b>										
1999	SBQ01			95.8	2.1	247	82.3	262		
1999	SBQ02			315	3.6	1460	157	1060		
1999	SBQ03			166	3.7	429	136	386		
1999	SBQ04			182	3.3	460	133	424		
1999	SBQ05			221	2.7	1230	105	735		
1999	SBQ06			161	4.3	445	153	446		
1999	SBQ07			148	2.8	455	108	355		
1999	SBQ08			93	2	188	74.9	230		
1999	SBQ09			46.7	0.87	146	21.1	86		
1999	SBQ10			71.1	1.7	212	59.6	173		
1999	SBQ11			59.7	1.5	149	58.8	171		
1999	SBQ12			21.6	0.68	54.7	18.3	60		
1999	SBQ13			264	3.4	1050	149	771		
1999	SBQ14			76	2	173	442	142		
1999	SBQ15			139	2.5	463	80.2	299		
1999	SBQ16			139	3.1	281	147	400		
1999	SBQ17			115	2.8	343	48.6	277		
1999	SBQ18			217	4.7	866	307	560		
1999	SBQ19			60.5	1.5	143	57.2	161		
1999	SBQ20			196	4.7	441	164	499		
1999	SBQ21			422	9.9	1550	371	1050		
1999	SBQ22			192	4.4	412	204	538		
1999	SBQ23			148	3.4	413	90.2	322		
1999	SBQ24			299	6.4	1200	200	644		
1999	SBQ25			183	6.7	778	103	907		
1999	SBQ26			93.9	2.7	232	53.1	265		

Continued

**Table 7-3A. Continued**

MT83 East	MT83 North	Date	East	North	Depth Upper Lower	As mg/kg	Cd mg/kg	Cu mg/kg	Pb mg/kg	Zn mg/kg
Site Q Continued										
		1999		SBQ27		166	3.4	407	121	370
		1999		SBQ28		120	2.8	367	84.3	297
		1999		SBQ29		100	4.6	811	46	729
		1999		SBQ30		96.7	1.9	298	80.2	250
		1999		SBQ31		208	5.8	932	181	815
		1999		SBQ32		269	6.6	1790	234	1070
		1999		SBQ33		270	4.4	1480	154	692
		1999		SBQ34		120	2.7	347	114	369
		1999		SBQ35		80	3.8	341	61	733
		1999		SBQ36		138	8.7	1660	151	1630
		1999		SBQ37		250	4.3	795	141	529
		1999		SBQ38		32.2	2.5	460	20.5	451
		1999		SBQ39		86.1	10.4	2260	69.4	2550
		1999		SBQ40		61.5	9.2	2650	163	1730
Site Q						Mean <b>153.07</b>	<b>3.9638</b>	<b>710.47</b>	<b>128.59</b>	<b>585.95</b>
						Max <b>422</b>	<b>10.4</b>	<b>2650</b>	<b>442</b>	<b>2550</b>
						Min <b>21.6</b>	<b>0.68</b>	<b>54.7</b>	<b>18.3</b>	<b>60</b>
						SD <b>87.401</b>	<b>2.3801</b>	<b>621.59</b>	<b>89.386</b>	<b>494.18</b>
						n <b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>
Site R										
na		347333.3	220417.3		0	2	630	7	2460	561
9/4/91	1171237	814202			0	0.17	256			85
9/4/91	1171237	814202			0	0.17		2.4		
#####	1173482	816792			0	0.17	141		540	157
#####	1173482	816792			0	0.17		2.6		344
#####	1173748	813813			0	0.17	29	1.11667	59.5	32.5
Site R						Mean <b>264</b>	<b>3.2792</b>	<b>1019.8</b>	<b>208.88</b>	<b>348</b>
						Max <b>630</b>	<b>7</b>	<b>2460</b>	<b>561</b>	<b>645</b>
						Min <b>29</b>	<b>1.1167</b>	<b>59.5</b>	<b>32.5</b>	<b>55</b>
						SD <b>261.01</b>	<b>2.5661</b>	<b>1270.1</b>	<b>240.23</b>	<b>295.02</b>
						n <b>4</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>3</b>

**Table 7-4.A** Food item metal and As concentrations from passerine species from Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	N	As	Cd	Pb	Cu	Zn
					ug/g	ug/g	ug/g	ug/g	ug/g
<u>European Starling</u>									
P1999-242	S	SK01	B		BDL	3.264	11.839	170.933	113.523
P1999-231	S	SK01	C		1.999	12.624	1.102	22.012	85.187
		SK01		2	Mean	1.999	7.944	6.471	96.472
					SD	-	6.618	7.593	105.303
					n	1	2	2	20.037
P1999-259	S	SK04	BD		11.560	0.309	4.939	95.240	85.904
P1999-221	S	SK04	C		54.707	1.206	24.222	273.534	433.563
		SK04		2	Mean	33.133	0.757	14.580	184.387
					SD	30.509	0.634	13.635	259.734
					n	2	2	2	245.831
P1999-235	S	SK12	A		22.888	0.348	5.090	43.570	56.242
P1999-225	S	SK12	ABC		15.547	0.369	6.643	105.380	125.428
P1999-209	S	SK12	B		202.662	2.061	202.843	83.371	224.363
		SK12		3	Mean	80.365	0.926	71.525	77.440
					SD	105.975	0.983	113.727	135.344
					n	3	3	3	84.498
P1999-247	S	SK15	ABC		18.714	0.269	9.772	70.692	205.487
P1999-250	S	SK15	B		12.595	0.267	9.313	65.071	145.811
		SK15		2	Mean	15.655	0.268	9.543	67.882
					SD	4.327	0.002	0.325	175.649
					n	2	2	2	42.197
P1999-200	S	SL03	AB		5.108	0.190	2.132	25.959	47.639
P1999-208	S	SL03	AB		3.023	BDL	BDL	23.205	29.594
				2	Mean	4.065	0.190	2.132	24.582
					SD	1.474	-	-	38.616
					n	2	1	1	1.947
								2	12.760
								2	2

Continued

**Table 7-4.A Continued**

SampleID	Species	BoxID	Individual	N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P1999-215	S	SL09	AB		26.312	0.804	23.560	153.488	317.373
P1999-248	S	SL09	AB		23.835	0.553	8.578	61.334	117.316
P1999-254	S	SL09	NA		9.753	0.163	8.693	75.447	122.239
				3	Mean SD n	19.967 8.931 3	0.507 0.323 3	13.610 8.617 3	96.756 49.636 3
P1999-246	S	SL20	A		12.958	0.596	5.326	73.338	126.092
P1999-222	S	SN01	ABCD		BDL	BDL	17.403	128.095	371.299
P1999-253	S	SN01	D		2.522	0.889	0.981	15.940	45.662
P1999-204	S	SN01	NA		2.536	0.345	0.291	7.450	33.295
		SN01		3	Mean SD n	2.529 0.010 2	0.617 0.385 2	6.225 9.686 3	50.495 67.338 3
P1999-227	S	SN06	ABCD		11.279	2.373	9.905	79.107	151.743
P1999-257	S	SN06	BD		1.541	0.107	1.311	54.862	41.493
P1999-261	S	SN06	NA		1.392	0.133	1.485	29.168	47.475
		SN06		3	Mean SD n	4.737 5.666 3	0.871 1.301 3	4.234 4.912 3	54.379 24.973 3
P1999-218	S	SN07	A		7.744	4.397	4.025	57.010	212.261
P1999-206	S	SN07	NA		BDL	0.150	0.732	32.272	52.119
		SN07		2	Mean SD n	7.744 - 1	2.274 3.003 2	2.378 2.328 2	44.641 17.492 2
P1999-226	S	SN13	ABC		9.741	2.382	1.550	45.259	71.079
P1999-252	S	SN13	NA		1.001	0.459	1.608	110.114	56.127
		SN13		2	Mean SD n	5.371 6.180 2	1.420 1.360 2	1.579 0.041 2	77.687 45.859 2

Continued

**Table 7-4.A Continued**

SampleID	Species	BoxID	Individual	N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P1999-214	S	SN14	ABCD		4.715	1.705	BDL	17.005	164.655
P1999-220	S	SN14	ABD		1.185	0.149	1.047	37.289	45.764
P1999-201	S	SN14	NA		0.782	0.077	0.696	60.797	53.034
		SN14		3	Mean SD n	2.228 2.164 3	0.644 0.920 3	0.871 0.248 2	38.364 21.916 3
P1999-234	S	SO05	B		16.432	0.074	4.466	56.666	52.043
P1999-240	S	SO05	B		1.708	0.053	1.138	25.564	40.057
P1999-228	S	SO05	C		4.249	BDL	1.844	88.408	94.061
		SO05		3	Mean SD n	7.463 7.870 3	0.064 0.015 2	2.482 1.754 3	56.880 31.423 3
P1999-245	S	SO11	ABC		1.917	0.101	1.239	98.353	71.228
P1999-237	S	SO12	A		3.600	0.126	1.743	33.282	44.171
P1999-258	S	SO12	NA		1.042	0.026	0.563	58.095	51.135
P1999-265	S	SO12	NA		3.465	0.050	1.404	41.397	49.593
P1999-249	S	SO12			BDL	BDL	8.000	149.717	110.755
P1999-256	S	SO12			6.253	0.133	2.653	33.232	43.348
		SO12		5	Mean SD n	3.590 2.129 4	0.084 0.054 4	2.873 2.963 5	63.145 49.446 5
P1999-216	S	SO13	A		BDL	BDL	BDL	119.447	139.180
P1999-230	S	SO13	NA		13.039	0.263	2.528	32.162	136.138
		SO13		2	Mean SD n	13.039 - 1	0.263 - 1	2.528 - 1	75.804 61.720 2
P1999-244	S	SO14	AB		5.794	0.241	1.883	27.321	74.293
P1999-202	S	SO14	ABC		3.578	BDL	2.646	23.057	49.504
		SO14		2	Mean SD n	4.686 1.567 2	0.241 - 1	2.264 0.540 2	25.189 3.015 2

Continued

**Table 7-4.A Continued**

SampleID	Species	BoxID	Individual	N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P1999-232	S	SO18	AB		4.798	0.047	0.756	20.708	52.564
P1999-224	S	SO18	ABCD		5.464	0.200	1.204	16.455	79.589
P1999-236	S	SO18	NA		4.056	0.122	1.522	54.844	74.349
P1999-263	S	SO18	NA		6.258	0.210	0.970	26.424	88.819
P1999-262	S	SO18			BDL	BDL	2.883	110.954	71.304
		SO18		5	Mean SD n	5.144 0.939 4	0.145 0.076 4	1.467 0.841 5	45.877 39.348 5 5
P1999-213	S	SQ02	D		47.945	BDL	1.386	30.072	44.803
P1999-241	S	SQ08	ABC		0.986	0.040	0.680	39.229	54.360
P1999-211	S	SQ12	A		11.070	0.390	7.832	36.524	48.397
P1999-203	S	SQ12	NA		4.273	0.226	BDL	7.441	56.327
		SQ12		2	Mean SD n	7.671 4.806 2	0.308 0.116 2	7.832 -	21.983 20.564 2 2 2
P1999-229	S	SQ17	A		5.797	0.631	BDL	35.451	123.932
P1999-219	S	SQ17	BD		32.295	0.195	0.906	30.837	83.705
P1999-264	S	SQ17	NA		BDL	0.538	1.145	55.807	130.480
		SQ17		3	Mean SD n	19.046 18.737 2	0.454 0.229 3	1.026 0.169 2	40.698 13.286 3 3 3

Mountain Bluebird

P1999-233	BK	K#08	NA		1.762	1.507	1.246	34.280	89.687
P1999-210	BS	SF09	B		4.889	BDL	BDL	41.824	79.213
P1999-243	BS	SF09	C		72.628	0.987	8.036	66.689	75.019
P1999-205	BS	SF09	NA		18.350	0.330	5.055	40.299	73.339
				3	Mean SD n	31.956 35.861 3	0.658 0.464 2	6.546 2.108 2	49.604 14.816 3 3

Continued

**Table 7-4.A** Continued

SampleID	Species	BoxID	Individual	N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<b><u>Chickadee</u></b>									
P1999-217	CB	B#44	DE		4.655	0.450	3.989	27.039	69.122
<b><u>Tree Swallow</u></b>									
P1999-251	TK	K#47			BDL	0.490	BDL	44.617	56.499
P1999-239	TS	SB12	ABCD		BDL	1.592	1.272	12.935	52.621
P1999-207	TS	SQ03	BD		BDL	1.573	BDL	13.884	127.127

**Table 7-5A.** Food item metal and As concentrations from passerine species from Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
BS	SB07	6/1/2000	1	0.697	0.952	0.584	6.715	63.925
BS	SB07	6/4/2000	2	4.682	14.630	1.332	64.642	195.770
BS	SB07	6/6/2000	3	0.541	1.868	0.452	9.624	85.055
3 SB07			<b>Mean</b>	1.973	5.816	0.789	26.994	114.917
			<b>SD</b>	2.347	7.646	0.475	32.636	70.813
			<b>n</b>	3	3	3	3	3
BS	SB07	7/8/2000	1a	9.139	6.791	0.868	36.859	105.180
BS	SB07	7/10/2000	2a	0.662	0.979	1.110	63.035	65.684
BS	SB07	7/14/2000	3a	0.947	0.596	0.599	86.576	66.591
BS	SB07	7/17/2000	4a	0.547	0.806	0.624	44.942	82.814
4 SB07			<b>Mean</b>	2.824	2.293	0.800	57.853	80.067
			<b>SD</b>	4.214	3.003	0.240	22.055	18.499
			<b>n</b>	4	4	4	4	4
3 SB07			<b>Mean</b>	1.973	5.816	0.789	26.994	114.917
4 SB07			<b>Mean</b>	2.824	2.293	0.800	57.853	80.067
2 SB			<b>Mean</b>	2.399	4.055	0.795	42.423	97.492
			<b>SD</b>	0.601	2.491	0.008	21.821	24.642
			<b>n</b>	2	2	2	2	2
BS	SC02	6/4/2000	1	19.240	13.507	3.427	77.041	263.342
BS	SC02	6/6/2000	2	41.240	4.039	2.685	33.972	134.822
BS	SC02	6/10/2000	3	11.008	1.349	1.750	23.587	76.052
3 SC02			<b>Mean</b>	23.829	6.298	2.621	44.867	158.072
			<b>SD</b>	15.630	6.386	0.840	28.343	95.786
			<b>n</b>	3	3	3	3	3
BS	SC10	7/19/2000	1	34.317	1.096	13.066	120.758	391.837
BS	SC10	7/23/2000	2	0.716	0.942	1.831	87.417	85.934
BS	SC10	7/25/2000	3	73.726	2.149	54.069	177.504	111.635
BS	SC10	7/28/2000	4	6.628	1.791	4.868	40.174	81.563

Continued

**Table 7-5A** Continued.

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
4 SC10			<b>Mean</b>	28.847	1.495	18.458	106.463	167.742
			<b>SD</b>	33.312	0.571	24.210	57.758	149.984
			<b>n</b>	4	4	4	4	4
3 SC02			<b>Mean</b>	23.829	6.298	2.621	44.867	158.072
			<b>Mean</b>	28.847	1.495	18.458	106.463	167.742
			<b>SD</b>	26.338	3.896	10.540	75.665	162.907
2 SC			<b>SD</b>	3.548	3.397	11.199	43.555	6.838
			<b>n</b>	2	2	2	2	2
BS	SF03	6/16/2000	1	29.699	0.244	0.677	12.050	44.334
BS	SF03	7/17/2000	1a	1.770	0.174	0.751	17.020	48.844
BS	SF03	7/20/2000	2a	37.436	2.322	4.562	58.256	152.894
BS	SF03	7/23/2000	3a	14.268	0.106	2.285	37.711	57.463
BS	SF03	7/26/2000	4a	8.428	0.137	0.950	39.738	56.367
4 SF03			<b>Mean</b>	15.476	0.685	2.137	38.182	78.892
			<b>SD</b>	15.505	1.092	1.754	16.867	49.483
			<b>n</b>	4	4	4	4	4
BS	SF03	6/16/2000	1	29.699	0.244	0.677	12.050	44.334
4 SF03			<b>Mean</b>	15.476	0.685	2.137	38.182	78.892
			<b>SD</b>	22.587	0.465	1.407	25.116	61.613
			<b>n</b>	10.058	0.312	1.033	18.478	24.436
2 SF			<b>n</b>	2	2	2	2	2
BS	SG01	7/2/2000	1	12.839	3.160	1.712	69.465	219.683
BS	SG01	7/10/2000	2	10.392	0.545	4.042	45.677	88.081
2 SG01			<b>Mean</b>	11.616	1.853	2.877	57.571	153.882
			<b>SD</b>	1.730	1.850	1.648	16.821	93.057
			<b>n</b>	2	2	2	2	2
2 SG			<b>Mean</b>	11.616	1.853	2.877	57.571	153.882
			<b>SD</b>	1.730	1.850	1.648	16.821	93.057
			<b>n</b>	2	2	2	2	2

Continued.

**Table 7-5A** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
BS	SH08	5/25/2000	1	19.583	0.739	15.212	128.466	329.947
BS	SH08	5/30/2000	2	36.577	0.858	15.308	46.150	63.183
BS	SH08	6/1/2000	3	27.518	3.757	5.267	28.502	204.488
3 SH08			<b>Mean</b>	27.892	1.785	11.929	67.706	199.206
			<b>SD</b>	8.503	1.709	5.770	53.354	133.460
			<b>n</b>	3	3	3	3	3
BS	SH12	7/8/2000	1	1.500	0.237	1.656	29.669	95.075
3 SH08			<b>Mean</b>	27.892	1.785	11.929	67.706	199.206
BS	SH12	7/8/2000	1	1.500	0.237	1.656	29.669	95.075
2 SH			<b>Mean</b>	14.696	1.011	6.792	48.688	147.140
			<b>SD</b>	18.663	1.095	7.264	26.896	73.631
			<b>n</b>	2	2	2	2	2
BS	SI06	7/8/2000	1	0.485	0.001	0.387	77.913	101.380
BS	SI06	7/10/2000	2	5.691	0.416	4.356	87.482	72.373
BS	SI06	7/14/2000	3	0.249	1.810	0.469	18.684	52.580
BS	SI06	7/16/2000	4	0.759	0.264	2.986	84.553	83.629
4 SI06			<b>Mean</b>	1.796	0.623	2.050	67.158	77.491
			<b>SD</b>	2.605	0.810	1.954	32.563	20.454
			<b>n</b>	4	4	4	4	4
4 SI			<b>Mean</b>	1.796	0.623	2.050	67.158	77.491
			<b>SD</b>	2.605	0.810	1.954	32.563	20.454
			<b>n</b>	4	4	4	4	4
BS	SK07	6/19/2000	1	9.201	0.751	6.032	69.190	87.486
BS	SK07	6/22/2000	2	50.158	0.824	12.681	74.718	121.506
BS	SK07	6/25/2000	3	19.206	0.189	7.772	51.085	52.588
BS	SK07	6/28/2000	4	116.849	1.225	28.857	154.000	241.494
4 SK07			<b>Mean</b>	48.854	0.747	13.835	87.248	125.768
			<b>SD</b>	48.567	0.427	10.402	45.631	82.121
			<b>n</b>	4	4	4	4	4

Continued

**Table 7-5A** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
BS	SK13	7/30/2000	1	9.696	0.187	2.970	135.203	62.560
	4 SK07		<b>Mean</b>	48.854	0.747	13.835	87.248	125.768
BS	SK13	7/30/2000	1	9.696	0.187	2.970	135.203	62.560
	2 SK		<b>Mean</b>	29.275	0.467	8.403	111.225	94.164
			<b>SD</b>	27.688	0.396	7.683	33.909	44.695
			<b>n</b>	2	2	2	2	2
BS	SM09-1	6/2/2000	1	0.418	0.084	0.643	52.671	58.877
BS	SM09-1	6/4/2000	2	1.238	0.847	4.453	94.811	122.333
BS	SM09-1	6/6/2000	3	8.291	0.145	1.610	65.338	45.676
BS	SM09-1	6/9/2000	4	31.997	1.810	8.800	80.997	113.419
	4 SM09-1		<b>Mean</b>	10.486	0.721	3.877	73.454	85.076
			<b>SD</b>	14.770	0.804	3.659	18.356	38.428
			<b>n</b>	4	4	4	4	4
BS	SM09-2	7/15/2000	1a	0.300	0.367	0.330	27.283	54.175
BS	SM09-2	7/18/2000	2a	8.960	0.737	0.474	79.805	65.096
BS	SM09-2	7/21/2000	3a	0.208	0.381	0.022	31.714	65.927
	3 SM09-2		<b>Mean</b>	3.156	0.495	0.276	46.267	61.733
			<b>SD</b>	5.026	0.209	0.231	29.129	6.558
			<b>n</b>	3	3	3	3	3
	4 SM09-1		<b>Mean</b>	10.486	0.721	3.877	73.454	85.076
	3 SM09-2		<b>Mean</b>	3.156	0.495	0.276	46.267	61.733
	2 SM		<b>Mean</b>	6.821	0.608	2.076	59.861	73.404
			<b>SD</b>	5.183	0.160	2.546	19.224	16.506
			<b>n</b>	2	2	2	2	2
BS	SO17	6/30/2000	1	1.215	0.206	1.049	200.000	120.335
BS	SO17	7/3/2000	2	24.321	0.444	8.062	90.642	70.663
BS	SO17	7/9/2000	3	0.862	0.034	0.477	53.406	98.990
	3 SO17		<b>Mean</b>	8.799	0.228	3.196	114.683	96.663
			<b>SD</b>	13.443	0.206	4.223	76.197	24.917
			<b>n</b>	3	3	3	3	3

Continued.

**Table 7-5A** Continued.

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
BK	K#21	7/8/2000	1	221.591	0.878	68.054	505.009	358.318
BK	K#21	7/17/2000	2	16.983	3.837	2.077	59.675	127.731
BK	K#21	7/18/2000	3	4.647	0.907	0.727	75.232	98.406
3 K#21			<b>Mean</b>	81.074	1.874	23.619	213.306	194.818
			<b>SD</b>	121.848	1.700	38.487	252.743	142.352
			<b>n</b>	3	3	3	3	3
3 K#21			<b>Mean</b>	81.074	1.874	23.619	213.306	194.818
			<b>SD</b>	121.848	1.700	38.487	252.743	142.352
			<b>n</b>	3	3	3	3	3
B	B#23	6/2/2000	1	0.332	0.155	0.137	6.462	40.106
B	B#23	6/5/2000	2	0.545	0.147	0.188	6.500	36.607
B	B#23	6/8/2000	3	1.127	0.115	0.139	22.307	61.014
B	B#23	6/10/2000	4	0.022	0.369	0.387	24.168	53.273
4 B#23			<b>Mean</b>	0.507	0.197	0.213	14.859	47.750
			<b>SD</b>	0.466	0.116	0.118	9.704	11.388
			<b>n</b>	4	4	4	4	4
B	B#23	7/21/2000	1a	0.141	0.231	0.613	44.434	81.218
B	B#23	7/25/2000	2a	1.216	0.181	0.022	72.013	56.470
B	B#23	7/27/2000	3a	0.164	0.031	0.674	43.780	53.362
B	B#23	7/30/2000	4a	4.968	1.336	0.022	33.600	81.210
4 B#23			<b>Mean</b>	1.623	0.445	0.333	48.457	68.065
			<b>SD</b>	2.286	0.600	0.359	16.469	15.236
			<b>n</b>	4	4	4	4	4
4 B#23			<b>Mean</b>	0.507	0.197	0.213	14.859	47.750
4 B#23			<b>Mean</b>	1.623	0.445	0.333	48.457	68.065
2 B#23			<b>Mean</b>	1.065	0.321	0.273	31.658	57.907
			<b>SD</b>	0.789	0.176	0.085	23.757	14.365
			<b>n</b>	2	2	2	2	2

Continued.

**Table 7-5A** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
TS	SB03	7/23/2000	1	13.305	2.472	0.782	7.094	71.483
TS	SB03	7/24/2000	2	227.649	0.414	0.022	13.378	102.317
TS	SB03	7/26/2000	3	14.752	1.171	0.444	8.003	65.834
TS	SB03	7/28/2000	4	2.928	1.122	0.267	12.778	40.678
4 SB03			<b>Mean</b>	64.658	1.295	0.379	10.313	70.078
			<b>SD</b>	108.788	0.857	0.320	3.223	25.322
			<b>n</b>	4	4	4	4	4
4 SB			<b>Mean</b>	64.658	1.295	0.379	10.313	70.078
			<b>SD</b>	108.788	0.857	0.320	3.223	25.322
			<b>n</b>	4	4	4	4	4
TS	SH02	7/5/2000	1	1.040	0.301	0.022	10.784	36.729
TS	SH02	7/8/2000	2	0.022	0.862	0.480	32.299	49.151
2 SH02			<b>Mean</b>	0.531	0.581	0.251	21.541	42.940
			<b>SD</b>	0.720	0.397	0.324	15.214	8.783
			<b>n</b>	2	2	2	2	2
2 SH			<b>Mean</b>	0.531	0.581	0.251	21.541	42.940
			<b>SD</b>	0.720	0.397	0.324	15.214	8.783
			<b>n</b>	2	2	2	2	2
TS	SI18	7/16/2000	3	0.022	0.361	0.022	9.059	25.723
TS	SI18	7/18/2000	1	0.577	0.440	0.156	5.659	29.442
TS	SI18	7/20/2000	2	0.515	0.652	0.201	8.454	28.283
TS	SI18	7/23/2000	3	6.930	1.923	0.058	16.910	24.417
4 SI18			<b>Mean</b>	2.011	0.844	0.109	10.021	26.966
			<b>SD</b>	3.289	0.730	0.084	4.826	2.303
			<b>n</b>	4	4	4	4	4
4 SI			<b>Mean</b>	2.011	0.844	0.109	10.021	26.966
			<b>SD</b>	3.289	0.730	0.084	4.826	2.303
			<b>n</b>	4	4	4	4	4

Continued

**Table 7-5A** Continued.

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
TS	SJ06	7/11/2000	1	0.022	0.397	0.022	10.965	54.498
TS	SJ06	7/14/2000	2	0.680	0.997	0.022	65.773	72.206
TS	SJ06	7/18/2000	4	0.022	0.548	0.022	5.756	43.519
3 SJ06			<b>Mean</b>	0.241	0.647	0.022	27.498	56.741
			<b>SD</b>	0.380	0.312	0.000	33.249	14.475
			<b>n</b>	3	3	3	3	3
3 SJ			<b>Mean</b>	0.241	0.647	0.022	27.498	56.741
			<b>SD</b>	0.380	0.312	0.000	33.249	14.475
			<b>n</b>	3	3	3	3	3
TS	SK05	7/16/2000	1	0.394	0.389	0.331	13.057	40.113
TS	SK05	7/20/2000	2	0.022	0.861	0.528	10.601	57.454
TS	SK05	7/23/2000	3	1.408	1.090	1.309	9.835	38.311
3 SK05			<b>Mean</b>	0.608	0.780	0.723	11.165	45.292
			<b>SD</b>	0.717	0.358	0.517	1.684	10.570
			<b>n</b>	3	3	3	3	3
TS	SK09	7/8/2000	1	0.211	0.510	0.495	13.916	27.862
TS	SK09	7/10/2000	2	0.022	1.176	0.248	43.049	29.580
TS	SK09	7/12/2000	3	0.022	1.041	0.022	50.677	38.722
3 SK09			<b>Mean</b>	0.085	0.909	0.255	35.881	32.055
			<b>SD</b>	0.109	0.352	0.237	19.400	5.837
			<b>n</b>	3	3	3	3	3
3 SK05			<b>Mean</b>	0.608	0.780	0.723	11.165	45.292
3 SK09			<b>Mean</b>	0.085	0.909	0.255	35.881	32.055
2 SK			<b>Mean</b>	0.347	0.844	0.489	23.523	38.674
			<b>SD</b>	0.370	0.091	0.331	17.477	9.360
			<b>n</b>	2	2	2	2	2

Continued

**Table 7-5A.** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
TS	SN02	7/19/2000	1	0.591	0.626	0.469	7.144	41.091
TS	SN02	7/21/2000	2	0.022	3.343	0.728	15.117	128.545
TS	SN02	7/23/2000	3	0.416	1.134	0.326	6.492	30.913
TS	SN02	7/25/2000	4	0.694	0.773	0.305	8.904	73.416
4 SN02			<b>Mean</b>	0.431	1.469	0.457	9.414	68.491
			<b>SD</b>	0.295	1.268	0.194	3.936	43.945
			<b>n</b>	4	4	4	4	4
4 SN			<b>Mean</b>	0.431	1.469	0.457	9.414	68.491
			<b>SD</b>	0.295	1.268	0.194	3.936	43.945
			<b>n</b>	4	4	4	4	4
TS	SO02	7/5/2000	1	0.022	0.879	0.322	7.374	39.310
TS	SO02	7/7/2000	2	0.022	0.320	0.022	7.082	70.330
TS	SO02	7/9/2000	3	0.295	0.443	0.054	8.002	24.959
3 SO02			<b>Mean</b>	0.113	0.548	0.133	7.486	44.866
			<b>SD</b>	0.157	0.294	0.165	0.470	23.191
			<b>n</b>	3	3	3	3	3
TS	SO16	7/9/2000	1	0.022	0.301	0.304	4.135	23.479
3 SO02			<b>Mean</b>	0.113	0.548	0.133	7.486	44.866
TS	SO16	7/9/2000	1	0.022	0.301	0.304	4.135	23.479
2 SO			<b>Mean</b>	0.067	0.425	0.218	5.810	34.173
			<b>SD</b>	0.064	0.174	0.121	2.370	15.123
			<b>n</b>	2	2	2	2	2
TS	SP09	7/8/2000	1	0.139	0.465	0.022	6.175	43.271
TS	SP09	7/10/2000	2	7.812	0.452	4.623	22.575	50.500
TS	SP09	7/12/2000	3	1.069	0.312	0.612	8.603	49.146
TS	SP09	7/15/2000	4	2.110	0.001	2.301	32.511	120.865
4 SP09			<b>Mean</b>	2.783	0.307	1.890	17.466	65.946
			<b>SD</b>	3.448	0.216	2.062	12.363	36.747
			<b>n</b>	4	4	4	4	4

Continued

**Table 7-5A.** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
TS	SR10	7/11/2000	1	0.022	0.276	0.214	6.743	29.013
TS	SR10	7/14/2000	2	0.022	2.150	2.857	257.024	143.929
TS	SR10	7/17/2000	3	0.022	0.762	0.177	51.604	39.407
3	SR10		<b>Mean</b>	0.022	1.063	1.082	105.124	70.783
			<b>SD</b>	0.000	0.972	1.537	133.448	63.559
			<b>n</b>	3	3	3	3	3
TB	B#32	7/7/2000	1	0.022	0.094	0.649	26.938	37.796
TB	B#32	7/9/2000	2	0.022	0.397	0.022	56.348	41.481
TB	B#32	7/12/2000	3	0.022	0.099	0.022	9.654	27.109
3	B#32		<b>Mean</b>	0.022	0.197	0.231	30.980	35.462
			<b>SD</b>	0.000	0.173	0.362	23.608	7.465
			<b>n</b>	3	3	3	3	3
3	B#32		<b>Mean</b>	0.022	0.197	0.231	30.980	35.462
			<b>SD</b>	0.000	0.173	0.362	23.608	7.465
			<b>n</b>	3	3	3	3	3
TB	B#36	7/4/2000	<b>1</b>	<b>0.022</b>	<b>0.200</b>	<b>0.022</b>	<b>8.694</b>	<b>27.473</b>
S	SK01	6/1/2000	1	55.786	2.363	12.222	84.725	110.989
S	SK01	6/3/2000	2	68.874	2.334	39.488	129.102	35.269
S	SK01	6/6/2000	3	42.129	3.992	18.015	175.957	607.388
3	SK01		<b>Mean</b>	55.596	2.896	23.242	129.928	251.215
			<b>SD</b>	13.373	0.949	14.365	45.621	310.769
			<b>n</b>	3	3	3	3	3
S	SK12	6/1/2000	1	20.565	1.216	17.901	62.186	77.810
S	SK12	6/3/2000	2	81.868	3.021	40.558	189.899	242.080
S	SK12	6/9/2000	3	15.721	5.309	9.707	85.002	302.116
3	SK12		<b>Mean</b>	39.385	3.182	22.722	112.363	207.335
			<b>SD</b>	36.871	2.051	15.981	68.111	116.119
			<b>n</b>	3	3	3	3	3

Continued

**Table 7-5A.** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
	3 SK01		<b>Mean</b>	55.596	2.896	23.242	129.928	251.215
	3 SK12		<b>Mean</b>	39.385	3.182	22.722	112.363	207.335
	2 SK		<b>Mean</b>	47.490	3.039	22.982	121.145	229.275
			<b>SD</b>	11.464	0.202	0.367	12.421	31.028
			<b>n</b>	2	2	2	2	2
S	SL06	5/30/2000	1	7.982	0.998	1.486	25.010	72.908
S	SL06	6/2/2000	2	6.820	1.329	37.316	136.873	192.153
S	SL06	6/7/2000	4	5.168	1.031	28.585	80.855	209.721
	3 SL06		<b>Mean</b>	6.656	1.120	22.463	80.912	158.261
			<b>SD</b>	1.414	0.183	18.683	55.931	74.438
			<b>n</b>	3	3	3	3	3
S	SL11	6/7/2000	1	3.432	0.237	2.432	40.811	60.358
	3 SL06		<b>Mean</b>	6.656	1.120	22.463	80.912	158.261
S	SL11	6/7/2000	1	3.432	0.237	2.432	40.811	60.358
	2 SL		<b>Mean</b>	5.044	0.678	12.447	60.862	109.310
			<b>SD</b>	2.280	0.624	14.164	28.356	69.227
			<b>n</b>	2	2	2	2	2
S	SN01	5/28/2000	1	9.336	0.305	4.677	21.354	78.488
S	SN01	6/1/2000	2	2.760	0.608	0.902	16.375	95.790
S	SN01	6/3/2000	3	1.296	0.575	0.713	14.118	42.631
	3 SN01		<b>Mean</b>	4.464	0.496	2.097	17.283	72.303
			<b>SD</b>	4.282	0.166	2.236	3.702	27.114
			<b>n</b>	3	3	3	3	3
S	SN03	6/5/2000	1	4.500	1.751	1.077	19.199	112.855
S	SN03	6/7/2000	2	0.813	0.523	0.022	4.738	37.296
S	SN03	6/10/2000	3	3.987	0.393	0.862	13.110	48.613
S	SN03	6/13/2000	4	3.482	0.674	0.383	12.865	60.742
	4 SN03		<b>Mean</b>	3.196	0.835	0.586	12.478	64.877
			<b>SD</b>	1.642	0.621	0.475	5.934	33.388
			<b>n</b>	4	4	4	4	4

Continued

**Table 7-5A.** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
S	SN04	6/3/2000	1	9.456	0.405	4.627	32.996	67.526
S	SN04	6/6/2000	2	478.934	0.168	0.289	23.355	55.714
S	SN04	6/8/2000	3	0.319	0.641	0.217	7.889	73.565
S	SN04	6/10/2000	4	2.101	0.258	0.055	7.464	28.588
S	SN04	6/10/2000	5	4.383	0.969	0.919	8.395	44.498
5 SN04			<b>Mean</b>	99.039	0.488	1.221	16.020	53.978
			<b>SD</b>	212.396	0.323	1.932	11.613	18.061
			<b>n</b>	5	5	5	5	5
S	SN05	7/9/2000	1	0.210	0.397	0.261	20.616	51.423
S	SN05	7/11/2000	2	0.384	0.226	0.528	24.437	57.573
S	SN05	7/14/2000	3	0.903	0.676	1.198	24.562	69.575
3 SN05			<b>Mean</b>	0.499	0.433	0.662	23.205	59.524
			<b>SD</b>	0.361	0.227	0.483	2.243	9.232
			<b>n</b>	3	3	3	3	3
S	SN06	7/6/2000	1	0.022	0.981	1.201	61.020	86.198
S	SN06	7/9/2000	2	0.134	0.474	0.744	45.570	73.785
S	SN06	7/11/2000	3	0.022	0.203	0.022	16.308	44.356
S	SN06	7/14/2000	4	0.071	0.112	0.339	20.433	50.325
4 SN06			<b>Mean</b>	0.062	0.442	0.577	35.833	63.666
			<b>SD</b>	0.053	0.390	0.511	21.194	19.672
			<b>n</b>	4	4	4	4	4
S	SN08	6/5/2000	1	0.410	1.358	0.351	8.544	92.460
S	SN08	6/13/2000	2	3.273	0.620	3.731	20.068	93.436
2 SN08			<b>Mean</b>	1.842	0.989	2.041	14.306	92.948
			<b>SD</b>	2.025	0.521	2.390	8.149	0.690
			<b>n</b>	2	2	2	2	2
S	SN09	6/2/2000	2	6.938	1.102	0.151	12.257	61.117
S	SN09	6/7/2000	3	0.459	0.531	0.337	11.005	80.395
2 SN09			<b>Mean</b>	3.699	0.817	0.244	11.631	70.756
			<b>SD</b>	4.581	0.404	0.131	0.885	13.632
			<b>n</b>	2	2	2	2	2

Continued

**Table 7-5A.** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
S	SN10	5/30/2000	1	3.925	0.986	1.771	8.619	28.925
S	SN10	6/2/2000	2	3.174	1.656	0.961	13.348	71.624
S	SN10	6/5/2000	4	5.031	0.444	0.334	12.574	62.382
S	SN10	6/8/2000	5	3.710	0.065	2.278	27.260	53.558
4 SN10			<b>Mean</b>	3.960	0.788	1.336	15.450	54.122
			<b>SD</b>	0.780	0.691	0.861	8.141	18.346
			<b>n</b>	4	4	4	4	4
S	SN13	6/1/2000	1	34.465	0.487	1.141	7.917	41.011
S	SN13	6/1/2000	2	3.941	0.832	0.450	5.816	66.810
S	SN13	6/6/2000	3	0.304	0.187	0.172	6.603	50.388
3 SN13			<b>Mean</b>	12.903	0.502	0.588	6.779	52.737
			<b>SD</b>	18.761	0.323	0.499	1.062	13.059
			<b>n</b>	3	3	3	3	3
3 SN01				<b>Mean</b>	4.464	0.496	2.097	17.283
4 SN03				<b>Mean</b>	3.196	0.835	0.586	12.478
5 SN04				<b>Mean</b>	99.039	0.488	1.221	16.020
3 SN05				<b>Mean</b>	0.499	0.433	0.662	23.205
4 SN06				<b>Mean</b>	0.062	0.442	0.577	35.833
2 SN08				<b>Mean</b>	1.842	0.989	2.041	14.306
2 SN09				<b>Mean</b>	3.699	0.817	0.244	11.631
4 SN10				<b>Mean</b>	3.960	0.788	1.336	15.450
3 SN13				<b>Mean</b>	12.903	0.502	0.588	6.779
3 SN13				<b>Mean</b>	12.903	0.502	0.588	52.737
9 SN				<b>Mean</b>	14.407	0.643	1.039	16.998
				<b>SD</b>	31.958	0.211	0.675	64.990
				<b>n</b>	9	9	9	9
S	SP01	6/8/2000	1	18.482	0.167	0.647	9.220	60.018
S	SP01	6/11/2000	2	4.711	0.161	2.664	16.189	54.211
S	SP01	6/13/2000	3	0.910	0.842	0.218	9.102	22.542
3 SP01				<b>Mean</b>	8.034	0.390	1.176	11.504
				<b>SD</b>	9.246	0.392	1.306	45.590
				<b>n</b>	3	3	3	20.171
								3
								3

Continued

**Table 7-5A.** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
S	SP04	6/16/2000	1	17.053	0.491	0.849	8.394	66.908
S	SP04	6/19/2000	2	21.477	0.293	0.149	11.308	35.039
S	SP04	6/22/2000	3	8.110	0.394	0.535	11.728	67.269
3 SP04			<b>Mean</b>	15.547	0.393	0.511	10.477	56.405
			<b>SD</b>	6.810	0.099	0.350	1.816	18.505
			<b>n</b>	3	3	3	3	3
3 SP01			<b>Mean</b>	8.034	0.390	1.176	11.504	45.590
3 SP04			<b>Mean</b>	15.547	0.393	0.511	10.477	56.405
2 SP			<b>Mean</b>	11.791	0.392	0.844	10.990	50.998
			<b>SD</b>	5.312	0.002	0.470	0.726	7.647
			<b>n</b>	2	2	2	2	2
S	SR01	5/24/2000	1	16.080	0.287	1.876	35.577	42.137
S	SR01	5/30/2000	2	0.075	0.098	0.364	9.847	44.596
S	SR01	6/2/2000	3	18.195	1.477	0.229	20.631	67.535
3 SR01			<b>Mean</b>	11.450	0.621	0.823	22.019	51.423
			<b>SD</b>	9.907	0.748	0.914	12.921	14.008
			<b>n</b>	3	3	3	3	3
S	SR02	5/29/2000	1	9.967	0.254	0.352	8.556	37.276
S	SR02	6/5/2000	2	0.696	0.044	0.564	14.158	42.277
2 SR02			<b>Mean</b>	5.332	0.149	0.458	11.357	39.777
			<b>SD</b>	6.556	0.148	0.150	3.961	3.536
			<b>n</b>	2	2	2	2	2
S	SR04	6/1/2000	1	0.078	0.123	0.144	12.505	70.475
S	SR04	6/4/2000	3	3.465	0.202	1.175	16.487	43.759
S	SR04	6/4/2000	2	3.268	0.189	0.854	6.975	32.572
S	SR04	6/8/2000	4	0.238	0.248	0.419	6.634	26.658
S	SR04	6/10/2000	5	1.074	0.357	1.126	3.850	12.582
5 SR04			<b>Mean</b>	1.624	0.224	0.744	9.290	37.209
			<b>SD</b>	1.636	0.087	0.449	5.103	21.730
			<b>n</b>	5	5	5	5	5

Continued

**Table 7-5A.** Continued

Species/ Site N	Box N	Date	Replicate	Asg ug/g	Cdg ug/g	Pbg ug/g	Cug ug/g	Zng ug/g
S	SR05	5/26/2000	1	7.698	0.415	7.634	40.255	53.772
S	SR05	6/1/2000	2	3.218	0.085	7.924	35.694	50.858
S	SR05	6/4/2000	4	2.622	0.344	0.167	18.992	39.536
S	SR05	6/4/2000	3	2.301	0.211	1.475	10.113	36.053
4 SR05			<b>Mean</b>	3.960	0.264	4.300	26.264	45.055
			<b>SD</b>	2.521	0.146	4.055	14.123	8.586
			<b>n</b>	4	4	4	4	4
S	SR06	5/25/2000	1	2.735	0.206	0.404	10.915	24.043
S	SR06	5/29/2000	2	2.737	0.204	0.822	17.239	70.337
S	SR06	6/1/2000	3	0.505	0.151	0.447	2.320	23.018
3 SR06			<b>Mean</b>	1.993	0.187	0.558	10.158	39.132
			<b>SD</b>	1.288	0.031	0.230	7.488	27.029
			<b>n</b>	3	3	3	3	3
S	SR13	5/29/2000	1	3.843	0.771	4.427	54.500	74.500
S	SR13	6/1/2000	2	2.580	0.425	0.199	5.418	79.077
2 SR13			<b>Mean</b>	3.211	0.598	2.313	29.959	76.789
			<b>SD</b>	0.893	0.245	2.990	34.706	3.237
			<b>n</b>	2	2	2	2	2
S	SR14	5/30/2000	1	10.487	0.480	0.696	8.307	89.990
S	SR14	6/1/2000	2	0.777	0.093	0.235	10.565	64.524
S	SR14	6/6/2000	3	2.486	0.119	0.286	2.603	11.519
S	SR14	6/8/2000	4	1.249	0.090	0.022	5.209	21.454
4 SR14			<b>Mean</b>	3.750	0.196	0.310	6.671	46.872
			<b>SD</b>	4.549	0.190	0.282	3.489	36.818
			<b>n</b>	4	4	4	4	4

Continued

**Table 7-5A.** Continued

**Table 7-6A.** Egg metal and As concentrations. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
<u>European Starling</u>										
P1999-164	S	SK12	5	1	BDL	BDL	0.108	0.439	8.103	
P1999-161	S	SL03	2	1	BDL	BDL	0.132	0.419	9.816	
P1999-169	S	SL12	3	1	0.119	BDL	0.118	0.368	7.944	
P1999-162	S	SN01	1	1	BDL	BDL	0.118	0.430	6.984	
P1999-174	S	SN07	A	1	BDL	BDL	BDL	0.289	7.894	
P1999-165	S	SO05	A	1	BDL	BDL	0.082	0.442	5.953	
P1999-176	S	SO12	A	1	BDL	BDL	0.068	0.340	5.541	
P1999-172	S	SQ02	A	1	BDL	BDL	BDL	0.267	3.976	
P1999-163	SK	K#31	E	1	BDL	BDL	0.116	0.355	6.432	
P1999-167	SK	K#31	D	1	BDL	BDL	0.113	0.348	9.719	
P1999-168	SK	K#31	B2	1	BDL	BDL	0.106	0.349	6.718	
P1999-170	SK	K#31	C1	1	BDL	BDL	BDL	0.398	6.351	
P1999-171	SK	K#31	C2	1	BDL	BDL	0.082	0.407	8.089	
P1999-173	SK	K#31	B1	1	BDL	BDL	BDL	BDL	BDL	
P1999-175	SK	K#31	A2	1	BDL	BDL	0.071	0.369	7.146	
P1999-177	SK	K#31	A1	1	BDL	BDL	BDL	BDL	BDL	
K#31				8	Mean	-	-	0.098	0.371	7.409
					SD	-	-	0.020	0.026	1.298
					n	0	0	5	6	6
P1999-166	SK	K#36	B1	1	BDL	BDL	0.132	0.408	8.916	
<u>Mountain Bluebird</u>										
P1999-182	BK	K#18	1	1	BDL	BDL	0.142	0.386	8.137	
P1999-179	BK	K#22	1	1	BDL	BDL	BDL	0.345	11.341	
P1999-181	BS	SB05	A	1	BDL	BDL	BDL	0.317	8.366	
P1999-180	BS	SF09	A	1	BDL	0.115	BDL	0.394	9.153	
P1999-178	BS	SH12	A	1	BDL	BDL	BDL	0.348	13.182	

**Table 7-7A** Blood metal and As concentrations from passerine species. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>European Starling</u>									
P1999-046	S	SK01	A		BDL	0.027	0.278	0.224	6.043
P1999-047	S	SK01	B		BDL	BDL	BDL	0.285	5.276
		SK01		2	Mean	-	0.027	0.278	0.254
					SD	-	-	0.043	0.543
					n	0	1	1	2
P1999-051	S	SK04	A		BDL	BDL	BDL	0.258	4.844
P1999-053	S	SK04	C		BDL	BDL	0.213	0.317	5.254
		SK04		2	Mean	-	0.213	0.287	5.049
					SD	-	-	0.041	0.290
					n	0	0	1	2
P1999-054	S	SK12	A	1	BDL	BDL	BDL	0.198	3.693
P1999-057	S	SK15	A		BDL	BDL	BDL	0.494	7.192
P1999-059	S	SK15	C		0.332	BDL	0.308	0.206	7.266
		SK15		2	Mean	0.332	-	0.308	0.350
					SD	-	-	0.203	0.052
					n	1	0	1	2
P1999-060	S	SL03	A		BDL	BDL	0.176	0.263	4.811
P1999-061	S	SL03	B		BDL	BDL	BDL	0.254	3.706
		SL03		2	Mean	-	0.176	0.259	4.258
					SD	-	-	0.006	0.782
					n	0	0	1	2
P1999-064	S	SL09	B	1	BDL	BDL	0.291	0.575	6.126
P1999-066	S	SL12	B	1	BDL	BDL	0.302	0.296	5.571
P1999-069	S	SL20	C	1	BDL	BDL	0.268	0.374	6.182
P1999-073	S	SN01	D	1	BDL	BDL	0.198	0.196	6.885

Continued

**Table 7-7A.** Continued

SampleID	Species	BoxID	Individual	Box N			As	Cd	Pb	Cu	Zn
							ug/g	ug/g	ug/g	ug/g	ug/g
P1999-077	S	SN06	A				BDL	BDL	0.170	0.207	4.480
P1999-080	S	SN06	D				BDL	BDL	BDL	0.255	4.742
		SN06		2	Mean	-	-	0.170	0.231	4.611	
					SD	-	-	-	0.034	0.185	
					n	0	0	1	2	2	
P1999-081	S	SN07	A	1		0.693	BDL	BDL	0.206	5.005	
P1999-083	S	SN13	A			BDL	BDL	0.217	0.208	4.385	
P1999-084	S	SN13	B			BDL	BDL	0.195	0.186	4.283	
		SN13		2	Mean	-	-	0.206	0.197	4.334	
					SD	-	-	0.016	0.015	0.072	
					n	0	0	2	2	2	
P1999-087	S	SN14	A			BDL	BDL	0.232	0.295	6.145	
P1999-089	S	SN14	C			BDL	BDL	0.258	0.254	4.970	
		SN14		2	Mean	-	-	0.245	0.275	5.557	
					SD	-	-	0.018	0.029	0.831	
					n	0	0	2	2	2	
P1999-095	S	SO05	A			BDL	BDL	0.321	0.308	4.343	
P1999-097	S	SO05	C			BDL	BDL	BDL	0.326	5.189	
		SO05		2	Mean	-	-	0.321	0.317	4.766	
					SD	-	-	-	0.013	0.598	
					n	0	0	1	2	2	
P1999-101	S	SO12	A			BDL	BDL	0.261	0.305	3.319	
P1999-104	S	SO12	D			BDL	BDL	BDL	0.217	4.063	
		SO12		2	Mean	-	-	0.261	0.261	3.691	
					SD	-	-	-	0.062	0.526	
					n	0	0	1	2	2	

Continued

**Table 7-7A.** Continued

SampleID	Species	BoxID	Individual	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P1999-105	S	SO13	A		BDL	BDL	0.329	0.398	5.292
P1999-107	S	SO13	C		BDL	BDL	0.163	0.240	5.273
		SO13		2	Mean	-	-	0.246	0.319
					SD	-	-	0.118	0.112
					n	0	0	2	2
P1999-108	S	SO14	A		BDL	BDL	0.284	0.201	4.891
P1999-109	S	SO14	B		BDL	BDL	BDL	0.201	5.154
		SO14		2	Mean	-	-	0.284	0.201
					SD	-	-	0.000	0.186
					n	0	0	1	2
P1999-112	S	SO18	A		BDL	BDL	BDL	0.325	5.753
P1999-113	S	SO18	B		BDL	BDL	BDL	0.259	6.872
		SO18		2	Mean	-	-	0.292	6.313
					SD	-	-	0.047	0.791
					n	0	0	0	2
P1999-121	S	SQ02	A		BDL	BDL	0.203	0.399	4.888
P1999-123	S	SQ02	C		BDL	BDL	0.188	0.266	4.804
		SQ02		2	Mean	-	-	0.196	0.332
					SD	-	-	0.011	0.094
					n	0	0	2	2
P1999-130	S	SQ05	B	1	0.809	BDL	0.213	0.261	5.341
P1999-132	S	SQ08	B		BDL	BDL	0.244	0.241	4.069
P1999-133	S	SQ08	C		BDL	BDL	0.300	0.320	4.779
		SQ08		2	Mean	-	-	0.272	0.281
					SD	-	-	0.039	0.056
					n	0	0	2	2
P1999-138	S	SQ12	A	1	BDL	BDL	0.293	0.299	4.444
P1999-135	S	SQ17	A	1	BDL	BDL	0.348	0.246	6.110

Continued

**Table 7-7A.** Continued

SampleID	Species	BoxID	Individual	Box N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<b><u>Mountain Bluebird</u></b>									
P1999-005	BK	K#18	B	1	BDL	BDL	BDL	0.224	6.580
P1999-041	BS	SH12	A	1	BDL	BDL	BDL	6.891	5.433
<b><u>Tree Swallows</u></b>									
P1999-011	TB	B#29	E	1	BDL	BDL	0.369	0.447	5.302
P1999-023	TK	K#47	B	1	BDL	BDL	BDL	0.249	6.501
P1999-035	TS	SB12	C	1	BDL	BDL	1.135	3.320	7.972
P1999-044	TS	SJ10	A	1	BDL	BDL	BDL	0.719	7.054
P1999-117	TS	SP11	B	1	BDL	BDL	0.315	0.315	5.663
P1999-128	TS	SQ03	D	1	BDL	BDL	0.312	0.587	6.938

**Table 7-8A.** Blood metal and As concentrations from passerine species. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Box N	As		Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
<u>European Starling</u>									
P2000-019	S	SK01		0.117	BDL	0.113	4.887	7.214	
P2000-040	S	SK01		0.308	0.012	0.191	1.386	7.038	
		SK01	2	Mean	0.212	0.012	0.152	3.136	7.126
				SD	0.135	-	0.055	2.475	0.124
				n	2	1	2	2	2
P2000-010	S	SK12		0.165	0.028	0.357	12.702	10.850	
P2000-022	S	SK12		0.343	0.020	0.184	1.932	7.727	
P2000-031	S	SK12		0.165	0.025	0.156	0.841	9.465	
P2000-034	S	SK12		0.145	0.026	0.172	1.086	8.868	
		SK12	4	Mean	0.205	0.025	0.217	4.140	9.227
				SD	0.093	0.003	0.094	5.727	1.300
				n	4	4	4	4	4
P2000-011	S	SL06		0.149	0.006	0.095	9.988	6.683	
P2000-012	S	SL06		BDL	0.019	0.103	2.738	6.054	
P2000-017	S	SL06		0.344	BDL	0.205	17.446	10.427	
		SL06	3	Mean	0.247	0.013	0.134	10.057	7.721
				SD	0.138	0.010	0.061	7.355	2.364
				n	2	2	3	3	3
P2000-001	S	SL11	1	3.418	BDL	0.137	6.280	6.275	
P2000-032	S	SN01		BDL	0.006	0.075	0.766	5.915	
P2000-046	S	SN01		BDL	BDL	0.323	6.504	7.532	
P2000-047	S	SN01		BDL	BDL	0.385	10.958	8.763	
P2000-048	S	SN01		BDL	BDL	0.262	6.781	5.354	
P2000-049	S	SN01		0.120	BDL	0.230	3.073	5.619	
		SN01	5	Mean	0.120	0.006	0.255	5.616	6.637
				SD	-	-	0.117	3.895	1.460
				n	1	1	5	5	5

Continued

**Table 7-8A.** Continued

SampleID	Species	BoxID	Box N					
				As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P2000-025	S	SN03		BDL	BDL	0.062	4.626	5.789
P2000-037	S	SN03		BDL	BDL	0.121	2.433	6.637
P2000-059	S	SN03		BDL	0.004	0.031	0.840	5.860
		SN03	3	Mean	-	0.004	0.071	2.633
				SD	-	-	0.046	1.901
				n	0	1	3	3
								0.470
P2000-024	S	SN04		BDL	0.004	0.074	4.877	5.828
P2000-036	S	SN04		0.107	0.013	0.112	0.874	4.654
P2000-057	S	SN04		BDL	0.004	BDL	1.554	5.675
		SN04	3	Mean	0.107	0.007	0.093	2.435
				SD	-	0.005	0.027	2.142
				n	1	3	2	3
								0.638
P2000-065	S	SN05		BDL	BDL	BDL	0.449	3.862
P2000-066	S	SN05		BDL	BDL	BDL	0.947	4.306
P2000-067	S	SN05		BDL	BDL	BDL	0.792	4.448
P2000-068	S	SN05		BDL	BDL	BDL	1.907	4.966
		SN05	4	Mean	-	-	-	1.024
				SD	-	-	-	0.624
				n	0	0	0	4
								0.455
P2000-062	S	SN06		BDL	BDL	0.063	5.095	4.705
P2000-063	S	SN06		BDL	BDL	BDL	1.065	5.151
P2000-064	S	SN06		BDL	BDL	BDL	2.631	3.999
		SN06	3	Mean	-	-	0.063	2.931
				SD	-	-	-	2.032
				n	0	0	1	3
								0.581
P2000-005	S	SN08		BDL	0.010	0.133	4.347	5.434
P2000-058	S	SN08		BDL	0.026	BDL	4.386	6.006
		SN08	2	Mean	-	0.018	0.133	4.366
				SD	-	0.011	-	0.028
				n	0	2	1	2
								0.404

Continued

**Table 7-8A.** Continued

SampleID	Species	BoxID	Box N					
				As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P2000-004	S	SN09		BDL	BDL	0.083	6.315	4.711
P2000-041	S	SN09		BDL	BDL	0.112	1.192	5.310
P2000-042	S	SN09		0.233	BDL	0.088	2.634	6.593
		SN09	3	Mean 0.233	-	0.094	3.380	5.538
				SD -	-	0.015	2.642	0.961
				n 1	0	3	3	3
P2000-014	S	SN10		BDL	BDL	0.054	5.611	5.585
P2000-016	S	SN10		BDL	BDL	0.058	6.135	4.163
P2000-027	S	SN10		BDL	0.005	0.069	8.178	4.642
P2000-029	S	SN10		0.075	0.007	0.080	1.776	5.952
		SN10	4	Mean 0.075	0.006	0.065	5.425	5.085
				SD -	0.001	0.011	2.673	0.826
				n 1	2	4	4	4
P2000-028	S	SN13		BDL	0.004	0.073	5.058	6.465
P2000-043	S	SN13		BDL	BDL	0.126	6.925	4.190
P2000-044	S	SN13		BDL	BDL	0.167	6.472	5.766
P2000-045	S	SN13		BDL	BDL	0.355	4.649	6.754
		SN13	4	Mean -	0.004	0.180	5.776	5.794
				SD -	-	0.123	1.094	1.147
				n 0	1	4	4	4
P2000-033	S	SP01		BDL	BDL	0.089	1.866	5.796
P2000-060	S	SP01		0.065	BDL	BDL	1.045	4.038
P2000-061	S	SP01		BDL	BDL	0.091	2.511	5.216
		SP01	3	Mean 0.065	-	0.090	1.807	5.017
				SD -	-	0.001	0.735	0.896
				n 1	0	2	3	3
P2000-003	S	SP04		0.062	BDL	0.063	4.520	5.513
P2000-013	S	SP04		BDL	BDL	0.072	6.691	5.301
P2000-026	S	SP04		BDL	BDL	BDL	15.011	7.950
		SP04	3	Mean 0.062	-	0.068	8.741	6.255
				SD -	-	0.006	5.538	1.472
				n 1	0	2	3	3

Continued

**Table 7-8A.** Continued

SampleID	Species	BoxID	Box N	As	Cd	Pb	Cu	Zn	
				ug/g	ug/g	ug/g	ug/g	ug/g	
P2000-002	S	SR01		BDL	BDL	0.085	11.013	5.397	
P2000-007	S	SR01		BDL	BDL	0.071	1.844	6.355	
P2000-008	S	SR01		BDL	BDL	BDL	4.571	5.481	
P2000-009	S	SR01		BDL	BDL	0.150	9.667	6.709	
P2000-023	S	SR01		BDL	BDL	0.076	3.566	6.301	
		SR01	5	Mean	-	-	0.096	6.132	6.049
				SD	-	-	0.037	3.992	0.579
				n	0	0	4	5	5
P2000-021	S	SR02		BDL	BDL	BDL	6.113	6.498	
P2000-038	S	SR02		BDL	BDL	BDL	0.943	5.375	
P2000-039	S	SR02		BDL	BDL	BDL	0.890	4.054	
		SR02	3	Mean	-	-	-	2.649	5.309
				SD	-	-	-	3.000	1.223
				n	0	0	0	3	3
P2000-018	S	SR04		BDL	BDL	0.030	2.995	6.549	
P2000-055	S	SR04		BDL	BDL	BDL	2.655	5.138	
P2000-056	S	SR04		BDL	BDL	BDL	1.266	5.317	
		SR04	3	Mean	-	-	0.030	2.306	5.668
				SD	-	-	-	0.916	0.768
				n	0	0	1	3	3
P2000-030	S	SR05	1	BDL	BDL	BDL	0.750	5.663	
P2000-020	S	SR13		BDL	BDL	BDL	21.663	6.413	
P2000-050	S	SR13		BDL	BDL	0.183	6.286	5.015	
P2000-051	S	SR13		BDL	BDL	0.097	1.811	4.522	
P2000-052	S	SR13		BDL	BDL	0.195	4.332	4.982	
		SR13	4	Mean	-	-	0.158	8.523	5.233
				SD	-	-	0.053	8.949	0.818
				n	0	0	3	4	4

Continued

**Table 7-8A.** Continued

SampleID	Species	BoxID	Box N					
				As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P2000-035	S	SR14		BDL	BDL	BDL	0.832	5.492
P2000-053	S	SR14		BDL	BDL	BDL	3.197	4.673
P2000-054	S	SR14		BDL	BDL	BDL	1.070	3.559
		SR14	3	Mean	-	-	1.700	4.575
				SD	-	-	1.302	0.970
				n	0	0	3	3
P2000-015	S	SR16	1	BDL	BDL	0.090	12.746	5.557
P2000-006	S	SR19	1	BDL	BDL	0.152	4.028	13.192

Mountain Bluebird

P2000-125	B	B#23	1	BDL	0.005	BDL	1.372	4.056
P2000-113	BK	K#21	1	BDL	0.016	BDL	3.305	6.613
P2000-094	BS	SB07	1	BDL	0.010	0.178	2.336	6.776
P2000-114	BS	SB07	1	0.072	0.005	0.159	0.957	4.201
P2000-096	BS	SC02	1	0.150	0.010	0.276	1.145	6.677
P2000-124	BS	SC10	1	0.084	0.006	0.162	1.136	4.055
P2000-097	BS	SF03	1	BDL	0.014	0.181	3.038	9.934
P2000-122	BS	SF03	1	BDL	0.004	0.066	1.587	4.619
P2000-105	BS	SG01	1	BDL	0.006	0.105	0.867	4.446
P2000-093	BS	SH08	1	BDL	0.013	0.153	3.945	7.233
P2000-111	BS	SH12	1	BDL	0.015	0.203	4.010	4.963
P2000-115	BS	SI06	1	BDL	0.007	0.079	0.867	4.724
P2000-100	BS	SK07	1	BDL	0.007	0.186	1.599	5.849
P2000-126	BS	SK13	1	BDL	0.011	0.080	1.863	5.282
P2000-095	BS	SM09-1	1	BDL	0.005	BDL	1.127	5.199
P2000-120	BS	SM09-2	1	BDL	BDL	BDL	1.709	4.763
P2000-104	BS	SO17	1	BDL	0.008	BDL	1.417	5.382

Chickadee

P2000-098	CB	B#38	1	BDL	0.046	0.497	5.320	12.576
P2000-099	CS	SB12	1	BDL	0.014	0.212	3.098	5.745
P2000-101	CS	SL02	1	BDL	0.037	0.272	7.322	8.561

Continued

**Table 7-8A.** Continued

SampleID	Species	BoxID	Box N	As	Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g
<b><u>Tree Swallow</u></b>								
P2000-106	TB	B#32	1	BDL	0.016	BDL	4.735	7.219
P2000-103	TB	B#36	1	BDL	0.009	BDL	3.256	7.452
P2000-123	TS	SB03	1	BDL	0.018	BDL	2.470	7.029
P2000-108	TS	SH02	1	BDL	0.009	0.101	1.301	5.574
P2000-116	TS	SI18	1	BDL	0.015	0.145	5.595	6.378
P2000-112	TS	SJ06	1	BDL	0.010	BDL	0.613	5.720
P2000-121	TS	SK05	1	BDL	BDL	BDL	1.705	5.046
P2000-109	TS	SK09	1	BDL	0.009	BDL	2.308	6.057
P2000-119	TS	SN02	1	BDL	0.008	BDL	4.993	5.518
P2000-102	TS	SO02	1	BDL	0.015	BDL	3.196	7.201
P2000-107	TS	SO16	1	BDL	0.013	BDL	1.604	6.894
P2000-110	TS	SP09	1	BDL	0.010	BDL	5.084	6.891
P2000-117	TS	SR10	1	BDL	0.004	BDL	3.573	3.340

**Table 7-9A.** Liver metal and As concentrations from passerine nestlings. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	Box N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>European Starling</u>									
P1999-046	S	SK01	A		BDL	0.376	1.664	12.033	30.086
P1999-047	S	SK01	B		BDL	0.258	1.213	16.584	21.478
		SK01		2	Mean	-	0.317	1.438	14.308
					SD	-	0.083	0.319	3.218
					n	0	2	2	2
P1999-053	S	SK04	C		BDL	0.064	1.231	7.875	21.516
P1999-054	S	SK12	A		BDL	0.057	1.992	21.551	22.504
P1999-057	S	SK15	A		BDL	BDL	2.133	13.797	45.990
P1999-061	S	SL03	B		BDL	BDL	0.945	6.487	19.300
P1999-064	S	SL09	B		BDL	0.080	1.368	12.499	39.942
P1999-066	S	SL12	B		BDL	BDL	0.929	7.646	22.713
P1999-069	S	SL20	C		BDL	BDL	0.974	20.380	19.229
P1999-073	S	SN01	D		BDL	0.092	0.961	4.726	22.423
P1999-080	S	SN06	D		BDL	BDL	0.747	11.887	17.035
P1999-081	S	SN07	A		2.460	0.119	1.157	5.851	18.711
P1999-083	S	SN13	A		BDL	BDL	0.739	5.053	17.221
P1999-089	S	SN14	C		BDL	0.049	0.770	6.276	20.574
P1999-095	S	SO05	A		BDL	BDL	0.683	4.374	16.208
P1999-101	S	SO12	A		BDL	BDL	0.807	11.413	26.104
P1999-105	S	SO13	A		BDL	BDL	0.535	7.142	18.976
P1999-109	S	SO14	B		BDL	BDL	0.614	8.432	19.505
P1999-113	S	SO18	B		BDL	BDL	0.500	4.691	17.973
P1999-121	S	SQ02	A		BDL	BDL	0.833	5.793	23.609
P1999-130	S	SQ05	B		BDL	BDL	1.786	8.752	33.811
P1999-133	S	SQ08	C		BDL	BDL	1.017	11.799	20.439
P1999-138	S	SQ12	A		BDL	0.042	0.639	8.590	22.719
P1999-135	S	SQ17	A		BDL	BDL	0.884	9.128	22.149

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P1999-003	BK	K#08	C		3.467	0.152	1.534	13.658	34.649
P1999-005	BK	K#18	B		BDL	BDL	1.379	20.938	39.922
P1999-037	BS	SF09	A		BDL	0.274	1.562	6.789	31.865
P1999-041	BS	SH12	A		BDL	0.461	4.750	16.508	39.188

Continued

**Table 7-9A.** Continued

SampleID	Species	BoxID	Individual	Box N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Chickadee</u>									
P1999-014	CB	B#44	C		BDL	BDL	1.182	10.587	32.762
<u>Tree Swallow</u>									
P1999-011	TB	B#29	E		BDL	BDL	BDL	4.673	27.450
P1999-023	TK	K#47	B		BDL	BDL	0.538	5.055	18.706
P1999-033	TS	SB12	A		BDL	BDL	1.319	5.960	28.722
P1999-034	TS	SB12	B		BDL	BDL	BDL	4.573	31.361
P1999-035	TS	SB12	C		BDL	BDL	BDL	2.316	24.584
P1999-036	TS	SB12	D		BDL	BDL	1.052	6.321	40.425
SB12				4	Mean	-	-	1.186	4.792
					SD	-	-	0.189	1.815
					n	0	0	2	4
P1999-044	TS	SJ10	A		BDL	BDL	BDL	3.208	19.121
P1999-117	TS	SP11	B		BDL	BDL	BDL	5.652	24.774
P1999-128	TS	SQ03	D		BDL	BDL	BDL	4.835	23.153

**Table 7-10A.** Liver metal and As concentrations from passerine nestlings. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Box N	As	Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g
<u>European Starling</u>								
P2000-019	S	SK01	1	0.029	0.965	3.018	19.033	58.256
P2000-022	S	SK12		0.237	0.976	1.088	20.440	64.741
P2000-034	S	SK12		0.137	1.883	1.954	17.079	53.869
P2000-010	S	SK12		0.092	2.089	1.324	14.825	52.708
P2000-031	S	SK12		0.065	0.775	2.857	30.160	38.903
		SK12	4	Mean	0.133	1.431	1.806	20.626
				SD	0.075	0.652	0.791	6.762
				n	4	4	4	4
P2000-011	S	SL06		0.037	0.366	3.490	37.876	61.568
P2000-012	S	SL06		0.090	0.489	5.069	57.360	39.600
P2000-017	S	SL06		BDL	0.061	0.235	37.915	85.399
		SL06	3	Mean	0.063	0.305	2.931	44.384
				SD	0.038	0.220	2.465	11.238
				n	2	3	3	3
P2000-001	S	SL11	1	0.070	0.075	0.201	15.393	42.332
P2000-032	S	SN01	1	BDL	0.476	1.330	33.477	30.863
P2000-025	S	SN03	1	BDL	0.131	0.996	34.582	43.364
P2000-024	S	SN04	1	BDL	0.096	0.278	13.460	28.788
P2000-065	S	SN05	1	BDL	0.292	0.138	15.460	19.292
P2000-062	S	SN06	1	BDL	2.613	0.099	14.366	28.471
P2000-005	S	SN08	1	BDL	0.246	0.516	7.702	34.825
P2000-004	S	SN09	1	BDL	0.166	1.003	19.059	31.419
P2000-016	S	SN10		BDL	0.363	1.046	15.101	43.336
P2000-029	S	SN10		BDL	0.314	1.051	14.460	34.116
P2000-014	S	SN10		BDL	0.272	1.057	9.240	34.948
P2000-027	S	SN10		0.060	0.286	0.630	12.527	29.667
		SN10	4	Mean	0.060	0.309	0.946	12.832
				SD	-	0.040	0.211	2.633
				n	1	4	4	4

Continued

**Table 7-10A.** Continued

SampleID	Species	BoxID	Box N	As		Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
P2000-028	S	SN13	1	BDL	0.343	0.754	13.267	39.671	
P2000-033	S	SP01	1	BDL	0.058	0.761	18.734	24.066	
P2000-003	S	SP04		BDL	0.115	0.566	19.493	29.681	
P2000-026	S	SP04		0.073	0.231	0.563	19.764	46.190	
P2000-013	S	SP04		0.040	0.136	1.009	37.224	35.590	
		SP04	3	Mean	0.057	0.160	0.712	25.494	37.154
				SD	0.023	0.062	0.257	10.160	8.365
				n	2	3	3	3	3
P2000-002	S	SR01		BDL	0.016	0.097	12.012	30.692	
P2000-023	S	SR01		BDL	0.051	0.288	15.997	34.470	
P2000-009	S	SR01		0.017	0.050	0.268	19.507	28.979	
P2000-008	S	SR01		BDL	0.055	0.310	10.181	29.879	
P2000-007	S	SR01		BDL	0.075	0.214	15.899	30.709	
		SR01	5	Mean	0.017	0.049	0.236	14.719	30.946
				SD	-	0.021	0.085	3.670	2.094
				n	1	5	5	5	5
P2000-021	S	SR02	1	BDL	0.043	0.132	17.874	28.379	
P2000-018	S	SR04	1	0.021	0.428	BDL	10.419	22.471	
P2000-030	S	SR05	1	BDL	0.048	0.300	10.214	26.074	
P2000-020	S	SR13	1	BDL	0.081	0.186	14.769	26.160	
P2000-035	S	SR14	1	BDL	0.049	0.100	6.656	22.008	
P2000-015	S	SR16	1	BDL	0.052	0.479	40.410	30.620	
P2000-006	S	SR19	1	BDL	0.095	0.272	4.662	21.707	

Continued

**Table 7-10A.** Continued

SampleID	Species	BoxID	Box N	As	Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g
<b><u>Mountain Bluebird</u></b>								
P2000-125	B	B#23	1	BDL	0.101	0.128	14.878	32.724
P2000-244	B	B#23	1	BDL	0.092	0.694	10.345	28.042
P2000-113	BK	K#21	1	0.060	0.211	BDL	9.565	27.158
P2000-094	BS	SB07	1	BDL	0.185	1.318	9.935	34.070
P2000-114	BS	SB07	1	0.113	0.385	0.180	7.775	25.850
P2000-096	BS	SC02	1	0.349	0.356	5.238	12.792	49.854
P2000-124	BS	SC10	1	0.482	0.496	1.053	12.004	24.411
P2000-097	BS	SF03	1	0.113	0.183	1.204	14.536	35.189
P2000-122	BS	SF03	1	0.212	0.092	0.100	11.775	24.372
P2000-105	BS	SG01	1	0.203	0.138	0.283	14.509	26.932
P2000-093	BS	SH08	1	0.250	0.075	1.276	10.123	32.065
P2000-111	BS	SH12	1	BDL	0.252	0.615	13.343	41.551
P2000-115	BS	SI06	1	BDL	0.091	0.176	13.628	25.757
P2000-100	BS	SK07	1	0.300	0.242	3.476	15.277	32.861
P2000-126	BS	SK13	1	BDL	0.133	0.339	19.661	24.472
P2000-095	BS	SM09-1	1	BDL	0.093	0.234	9.038	39.170
P2000-120	BS	SM09-2	1	BDL	0.125	BDL	11.853	30.917
P2000-104	BS	SO17	1	BDL	0.116	0.573	15.992	35.003
<b><u>Chickadee</u></b>								
P2000-098	CB	B#38	1	BDL	0.101	0.390	18.204	33.441
P2000-099	CS	SB12	1	BDL	0.259	1.339	15.191	30.274
P2000-101	CS	SL02	1	BDL	0.119	1.119	12.321	20.071
<b><u>Tree Swallow</u></b>								
P2000-106	TB	B#32	1	BDL	0.026	BDL	8.876	21.671
P2000-103	TB	B#36	1	BDL	0.057	0.154	13.594	27.378
P2000-123	TS	SB03	1	0.068	0.359	BDL	16.744	65.728
P2000-108	TS	SH02	1	BDL	0.118	0.064	19.007	28.884
P2000-116	TS	SI18	1	BDL	0.145	BDL	6.671	22.739
P2000-112	TS	SJ06	1	BDL	0.129	BDL	7.995	22.178
P2000-121	TS	SK05	1	BDL	0.107	BDL	11.407	24.156
P2000-109	TS	SK09	1	BDL	0.035	BDL	5.237	23.342
P2000-119	TS	SN02	1	BDL	0.172	BDL	10.164	26.949
P2000-102	TS	SO02	1	BDL	0.059	0.093	7.132	17.036
P2000-107	TS	SO16	1	BDL	0.044	BDL	15.432	23.215
P2000-110	TS	SP09	1	BDL	0.045	BDL	6.003	21.114
P2000-117	TS	SR10	1	BDL	0.024	BDL	5.150	71.571

**Table 7-11A.** Kidney metal and As concentrations from passerine nestlings. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	Box N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>European Starlings</u>									
P1999-046	S	SK01	A		BDL	BDL	BDL	4.507	19.285
P1999-047	S	SK01	B		28.475	BDL	27.422	6.343	20.146
		SK01		2	Mean	28.475	-	27.422	5.425
					SD	-	-	1.298	19.715
					n	1	0	2	0.608
P1999-053	S	SK04	C	1	BDL	BDL	BDL	7.128	24.010
P1999-054	S	SK12	A		BDL	BDL	3.861	9.230	20.234
P1999-054	S	SK12	A		BDL	BDL	3.822	10.462	21.033
		SK12		2	Mean	-	-	3.842	20.634
					SD	-	-	0.027	9.846
					n	0	0	2	0.565
P1999-057	S	SK15	A	1	BDL	BDL	3.985	7.624	33.086
P1999-061	S	SL03	B	1	BDL	BDL	2.352	7.480	22.105
P1999-064	S	SL09	B	1	BDL	BDL	2.746	6.723	22.926
P1999-066	S	SL12	B	1	BDL	BDL	3.095	8.109	20.660
P1999-069	S	SL20	C	1	BDL	BDL	2.114	7.306	18.278
P1999-073	S	SN01	D	1	BDL	0.120	2.087	4.626	19.787
P1999-080	S	SN06	D	1	BDL	BDL	2.366	10.430	33.338
P1999-083	S	SN13	A	1	BDL	BDL	1.657	4.559	23.189
P1999-089	S	SN14	C	1	BDL	BDL	2.175	5.421	22.809
P1999-095	S	SO05	A	1	BDL	BDL	0.797	5.293	22.730
P1999-101	S	SO12	A	1	BDL	BDL	2.751	6.355	25.043
P1999-105	S	SO13	A	1	BDL	BDL	0.925	4.950	20.768
P1999-109	S	SO14	B	1	BDL	BDL	0.830	5.295	19.618
P1999-113	S	SO18	B	1	BDL	BDL	0.784	5.674	20.053
P1999-121	S	SQ02	A	1	2.693	BDL	BDL	6.234	26.249
P1999-130	S	SQ05	B	1	7.192	BDL	BDL	4.838	23.673
P1999-133	S	SQ08	C	1	BDL	BDL	2.204	5.568	24.981
P1999-135	S	SQ17	A	1	BDL	BDL	0.867	6.459	20.589

Continued

**Table 7-11A.** Continued

SampleID	Species	BoxID	Individual	Box N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Mountain Bluebird</u>									
P1999-003	BK	K#08	C	1	BDL	BDL	BDL	7.692	19.945
P1999-005	BK	K#18	B	1	BDL	BDL	BDL	8.735	31.090
P1999-037	BS	SF09	A		BDL	BDL	BDL	4.505	23.709
P1999-041	BS	SH12	A	1	BDL	BDL	BDL	7.241	20.862
<u>Chickadee</u>									
P1999-014	CB	B#44	C	1	BDL	BDL	BDL	5.156	23.754
<u>Tree Swallow</u>									
P1999-011	TB	B#29	E	1	BDL	BDL	BDL	6.032	21.285
P1999-023	TK	K#47	B	1	BDL	BDL	BDL	5.631	19.681
P1999-044	TS	SJ10	A	1	BDL	BDL	BDL	3.762	20.771
P1999-117	TS	SP11	B	1	BDL	BDL	BDL	6.573	20.326
P1999-128	TS	SQ03	D	1	BDL	BDL	BDL	4.791	26.925

7      passerine

**Table 7-12A.** Kidney metal and As concentrations from passerine nestlings. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Box N					
				As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>European Starling</u>								
P2000-019	S	SK01	1	0.394	1.083	4.650	12.280	39.001
P2000-022	S	SK12		0.175	1.309	3.332	9.892	33.759
P2000-034	S	SK12		0.108	1.224	3.846	13.000	38.223
P2000-010	S	SK12		1.110	1.164	3.054	8.383	30.924
P2000-031	S	SK12		BDL	1.260	3.555	7.746	51.254
		SK12	4	Mean	0.464	1.239	3.447	9.755
				SD	0.560	0.061	0.336	2.343
				n	3	4	4	4
P2000-011	S	SL06		0.567	0.622	2.086	8.742	25.451
P2000-012	S	SL06		0.308	0.470	3.845	8.640	23.691
P2000-017	S	SL06		0.875	0.538	9.860	8.107	40.342
		SL06	3	Mean	0.583	0.543	5.264	8.497
				SD	0.284	0.076	4.076	0.341
				n	3	3	3	3
P2000-001	S	SL11	1	0.754	0.412	5.261	6.191	21.849
P2000-032	S	SN01	1	BDL	0.235	1.135	5.440	27.353
P2000-025	S	SN03	1	BDL	0.123	1.267	5.687	18.501
P2000-024	S	SN04	1	0.137	0.103	1.506	5.642	18.749
P2000-065	S	SN05	1	BDL	0.088	BDL	10.501	18.799
P2000-062	S	SN06	1	BDL	0.062	BDL	5.440	19.702
P2000-005	S	SN08	1	0.977	0.314	1.546	6.530	19.672
P2000-004	S	SN09	1	0.831	0.266	0.904	5.758	21.400
P2000-016	S	SN10		0.857	0.274	1.297	4.213	25.006
P2000-029	S	SN10		BDL	0.271	1.515	4.795	23.806
P2000-014	S	SN10		0.859	0.405	1.634	9.090	21.849
P2000-027	S	SN10		0.246	0.256	1.291	4.674	21.305
		SN10	4	Mean	0.654	0.302	1.434	5.693
				SD	0.353	0.069	0.169	2.279
				n	3	4	4	4

Continued

**Table 7-12A.** Continued

SampleID	Species	BoxID	Box N	As	Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g
P2000-028	S	SN13	1	0.187	0.285	1.284	6.489	23.820
P2000-033	S	SP01	1	0.206	0.066	1.321	4.308	20.198
P2000-003	S	SP04		0.730	0.098	0.565	3.604	16.579
P2000-026	S	SP04		0.387	0.084	0.696	3.711	20.300
P2000-013	S	SP04		0.665	0.107	0.954	3.434	17.439
		SP04	3	Mean	0.594	0.096	0.738	3.583
				SD	0.182	0.011	0.198	18.106
				n	3	3	0.140	1.948
P2000-002	S	SR01		0.116	0.026	0.237	3.239	16.572
P2000-023	S	SR01		BDL	0.047	0.513	3.321	16.148
P2000-009	S	SR01		BDL	0.055	0.509	3.936	16.154
P2000-008	S	SR01		0.147	0.056	0.587	3.933	18.168
P2000-007	S	SR01		BDL	0.077	0.376	4.598	21.221
		SR01	5	Mean	0.132	0.052	0.444	3.806
				SD	0.022	0.018	0.139	17.653
				n	2	5	0.552	2.161
P2000-021	S	SR02	1	BDL	0.054	0.777	7.742	23.004
P2000-018	S	SR04	1	0.133	0.068	0.666	5.128	22.591
P2000-030	S	SR05	1	BDL	0.056	0.651	5.263	24.092
P2000-020	S	SR13	1	0.247	0.100	0.530	4.398	19.921
P2000-035	S	SR14	1	BDL	0.087	0.206	7.088	23.096
P2000-015	S	SR16	1	0.215	0.111	BDL	9.168	27.689
P2000-006	S	SR19	1	0.173	0.113	0.657	3.319	17.776

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P2000-125	B	B#23	1	BDL	0.122	BDL	7.550	20.820
P2000-244	B	B#23	1	BDL	0.179	0.943	23.742	25.379
P2000-113	BK	K#21	1	0.332	0.200	BDL	12.606	22.388
P2000-094	BS	SB07	1	0.331	0.216	1.408	56.764	25.936
P2000-114	BS	SB07	1	0.509	0.602	0.601	9.775	22.053
P2000-096	BS	SC02	1	1.054	0.893	10.865	19.141	22.482
P2000-124	BS	SC10	1	0.753	0.325	1.090	9.491	21.587
P2000-097	BS	SF03	1	0.920	0.427	1.272	5.607	23.844
P2000-122	BS	SF03	1	0.911	0.089	0.183	7.935	21.730
P2000-105	BS	SG01	1	0.826	0.168	0.295	11.814	22.118
P2000-093	BS	SH08	1	0.807	0.169	1.902	38.964	30.595
P2000-111	BS	SH12	1	BDL	0.157	0.463	13.989	22.953

Continued

**Table 7-12A.** Continued

SampleID	Species	BoxID	Box N	As	Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g
P2000-115	BS	SI06	1	BDL	0.110	0.265	7.143	21.032
P2000-100	BS	SK07	1	0.264	0.845	1.760	19.314	27.989
P2000-126	BS	SK13	1	0.647	0.227	BDL	18.659	23.445
P2000-095	BS	SM09-1	1	BDL	0.321	0.912	31.967	30.157
P2000-120	BS	SM09-2	1	BDL	0.110	BDL	10.197	23.496
P2000-104	BS	SO17	1	0.495	0.092	0.717	10.409	23.298
<b><u>Chickadee</u></b>								
P2000-098	CB	B#38	1	BDL	BDL	0.751	23.193	24.339
P2000-099	CS	SB12	1	BDL	0.206	2.903	28.970	24.993
P2000-101	CS	SL02	1	0.458	0.289	1.078	19.463	21.516
<b><u>Tree Swallow</u></b>								
P2000-106	TB	B#32	1	BDL	0.025	BDL	10.990	19.775
P2000-103	TB	B#36	1	BDL	0.079	0.766	22.100	26.019
P2000-123	TS	SB03	1	1.810	0.347	BDL	11.605	23.993
P2000-108	TS	SH02	1	BDL	0.141	BDL	13.014	22.845
P2000-116	TS	SI18	1	0.193	0.287	BDL	12.429	23.024
P2000-112	TS	SJ06	1	BDL	0.173	0.151	13.005	20.840
P2000-121	TS	SK05	1	BDL	0.156	BDL	15.480	23.331
P2000-109	TS	SK09	1	BDL	0.057	BDL	9.895	20.556
P2000-119	TS	SN02	1	BDL	0.282	BDL	6.001	22.747
P2000-102	TS	SO02	1	BDL	0.060	1.130	18.670	21.965
P2000-107	TS	SO16	1	BDL	0.058	BDL	13.387	24.083
P2000-110	TS	SP09	1	BDL	0.055	BDL	19.058	21.422
P2000-117	TS	SR10	1	BDL	0.067	BDL	15.515	22.216

**Table 7-13A.** Liver metal and As concentrations from opportunistically collected passerine mortalities. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	Box N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>European Starling</u>									
P1999-048	S	SK01	C	1	BDL	BDL	BDL	15.722	34.547
P1999-055	S	SK12	B	1	BDL	BDL	1.591	12.910	32.546
P1999-068	S	SL20	B	1	BDL	BDL	0.883	10.484	33.691
P1999-070	S	SN01	A		BDL	0.148	1.980	28.465	29.469
P1999-071	S	SN01	B		BDL	0.084	1.522	22.894	29.804
		SN01		2	Mean	-	0.116	1.751	25.680
					SD	-	0.045	0.324	29.637
					n	0	2	2	0.237
P1999-075	S	SN05	B			1.401	0.111	0.750	9.069
P1999-076	S	SN05	C			1.508	0.156	0.955	21.788
		SN05		2	Mean	1.454	0.134	0.853	15.428
					SD	0.076	0.032	0.144	40.244
					n	2	2	2	16.721
P1999-079	S	SN06	C	1		1.271	0.119	0.843	16.126
P1999-082	S	SN07	B	1		BDL	0.096	1.077	7.782
P1999-088	S	SN14	B	1		BDL	BDL	BDL	28.519
P1999-092	S	SN20	AA			BDL	0.065	0.601	10.232
P1999-093	S	SN20	B			BDL	0.050	0.584	7.512
		SN20		2	Mean	-	0.057	0.593	28.849
					SD	-	0.011	0.012	7.584
					n	0	2	2	26.859
									27.854
P1999-100	S	SO11	C	1		BDL	BDL	BDL	0.051
P1999-103	S	SO12	C	1		BDL	BDL	1.053	1.407
P1999-111	S	SO14	NA	1		BDL	0.538	1.247	42.304
									41.061

Continued

**Table 7-13A.** Continued

SampleID	Species	BoxID	Individual	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Mountain Bluebird</u>									
P1999-043	BS	SH12	C	1	1.953	BDL	1.530	7.923	33.358
<u>Tree Swallow</u>									
P1999-139	TB	B#08			BDL	2.350	BDL	20.841	42.835
P1999-140	TB	B#27			BDL	0.827	BDL	18.661	42.077
P1999-141	TB	B#27			BDL	0.405	BDL	17.122	64.896
		B#27		2	Mean SD n	0.616 0.299 2	- - 0	17.891 1.088 2	53.487 16.136 2
P1999-142	TB	B#28			BDL	0.629	BDL	17.370	40.108
P1999-143	TB	B#28			BDL	1.119	BDL	21.051	39.459
P1999-144	TB	B#28			BDL	1.053	BDL	21.012	43.577
P1999-145	TB	B#28			BDL	1.018	BDL	18.094	42.184
		B#28		4	Mean SD n	0.955 0.221 0	- - 0	19.382 1.928 4	41.332 1.895 4
P1999-146	TB	B#29			BDL	0.573	BDL	16.635	33.129
P1999-147	TB	B#29			BDL	0.804	BDL	19.266	44.719
P1999-148	TB	B#29			BDL	0.655	BDL	13.525	47.427
		B#29		3	Mean SD n	0.677 0.117 0	- - 0	16.475 2.874 3	41.758 7.595 3
P1999-149	TB	B#32			BDL	0.708	BDL	15.584	44.580
P1999-150	TB	B#32			BDL	0.933	BDL	27.698	45.049
		B#32		2	Mean SD n	0.820 0.159 0	- - 0	21.641 8.566 2	44.815 0.331 2

Continued

**Table 7-13A.** Continued

SampleID	Species	BoxID	Individual	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
P1999-151	TB	B#34			BDL	0.573	BDL	15.358	43.164
P1999-152	TB	B#34			BDL	0.680	BDL	19.491	43.288
P1999-153	TB	B#34			BDL	0.462	BDL	10.882	48.088
P1999-154	TB	B#34			BDL	0.700	BDL	8.621	25.012
		B#34		4	Mean	-	0.604	-	13.588
					SD	-	0.110	-	39.888
					n	0	4	0	10.179
								4	4
P1999-155	TS	SB01		1	BDL	0.654	BDL	15.773	37.269
P1999-156	TS	SP01		1	BDL	0.833	BDL	18.821	40.905

**Table 7-14A.** Kidney metal and As concentrations from opportunistic collections passerine mortalities. Anaconda Smelter Site, 1999. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	Box N					
					As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>European Starling</u>									
P1999-048	S	SK01	C	1	BDL	BDL	1.760	4.969	23.664
P1999-055	S	SK12	B	1	BDL	BDL	3.251	10.211	28.901
P1999-068	S	SL20	B	1	BDL	BDL	2.418	4.464	24.288
P1999-070	S	SN01	A		BDL	0.134	1.814	6.256	22.977
P1999-071	S	SN01	B		BDL	BDL	1.222	4.325	20.615
		SN01		2	Mean	-	0.134	1.518	5.290
					SD	-	-	0.418	1.366
					n	0	1	2	2
P1999-075	S	SN05	B		3.132	0.085	0.503	5.786	19.873
P1999-076	S	SN05	C		BDL	BDL	BDL	6.9405	24.1744
		SN05		2	Mean	3.132	0.085	0.503	6.363
					SD	-	-	-	22.023
					n	1	1	1	0.816
								2	3.042
P1999-079	S	SN06	C	1	BDL	BDL	BDL	5.381	18.246
P1999-082	S	SN07	B	1	BDL	BDL	1.520	3.348	19.887
P1999-088	S	SN14	B		BDL	BDL	BDL	3.210	21.819
P1999-092	S	SN20	AA		BDL	BDL	0.866	3.480	16.506
P1999-093	S	SN20	B		BDL	BDL	0.960	3.740	17.933
		SN20		2	Mean	-	-	0.913	3.610
					SD	-	-	0.066	17.220
					n	0	0	2	0.184
								2	1.009
P1999-100	S	SO11	C	1	BDL	BDL	BDL	2.916	15.134
P1999-103	S	SO12	C	1	BDL	BDL	BDL	8.536	37.233
P1999-111	S	SO14	NA	1	BDL	0.566	1.833	4.841	28.322
<u>Mountain Bluebird</u>									
P1999-043	BS	SH12	C	1	BDL	BDL	BDL	8.892	37.343

Continued

**Table 7-14A.** Continued

SampleID	Species	BoxID	Individual	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Tree Swallow</u>									
P1999-139	TB	B#08		1	BDL	5.847	BDL	9.916	39.987
P1999-140	TB	B#27			BDL	1.289	BDL	16.611	38.096
P1999-141	TB	B#27			BDL	0.474	BDL	23.679	34.876
		B#27		2	Mean	-	0.882	-	20.145
					SD	-	0.576	-	36.486
					n	0	2	0	2.277
P1999-142	TB	B#28			BDL	1.295	BDL	17.553	38.168
P1999-143	TB	B#28			BDL	0.357	0.300	2.577	4.835
P1999-144	TB	B#28			BDL	1.205	BDL	16.929	36.654
P1999-145	TB	B#28			BDL	2.655	BDL	12.234	48.524
		B#28		4	Mean	-	1.378	0.300	12.323
					SD	-	0.951	-	32.045
					n	0	4	1	6.918
P1999-146	TB	B#29			BDL	1.114	BDL	18.138	48.592
P1999-147	TB	B#29			BDL	1.750	BDL	17.566	40.936
P1999-148	TB	B#29			BDL	2.179	BDL	17.266	35.601
		B#29		3	Mean	-	1.681	-	17.657
					SD	-	0.536	-	41.710
					n	0	3	0	0.443
P1999-149	TB	B#32			BDL	1.171	BDL	9.856	33.396
P1999-150	TB	B#32			BDL	0.946	BDL	7.355	31.083
		B#32		2	Mean	-	1.059	-	8.605
					SD	-	0.159	-	32.240
					n	0	2	0	1.768
								2	1.635

Continued

**Table 7-14A.** Continued

SampleID	Species	BoxID	Individual	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g	
P1999-151	TB	B#34			BDL	1.270	BDL	12.456	41.475	
P1999-152	TB	B#34			BDL	0.962	BDL	10.431	33.288	
P1999-153	TB	B#34			BDL	1.144	BDL	6.567	30.716	
P1999-154	TB	B#34			BDL	1.497	BDL	3.867	12.880	
		B#34		4	Mean	-	1.218	-	8.330	29.590
					SD	-	0.225	-	3.850	12.048
					n	0	4	0	4	4
P1999-155	TS	SB01		1	BDL	1.753	BDL	8.641	30.333	
P1999-156	TS	SP01		1	BDL	2.522	BDL	14.792	27.912	

**Table 7-15A.** Liver metal and As concentrations from opportunistically collected passerine mortalities. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Box N	As	Cd	Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g
<u>European Starling</u>								
P2000-092	S	SN04	1	2.478	0.220	BDL	22.476	41.140
P2000-206	S	SN06	1	0.100	0.105	0.665	18.743	39.131
P2000-208	S	SN09	1	0.433	0.144	BDL	8.292	33.972
P2000-213	S	SN15		0.915	0.129	0.251	8.120	18.396
P2000-210	S	SN15		0.054	0.029	BDL	5.433	14.047
P2000-211	S	SN15		0.075	0.057	0.440	7.972	17.601
P2000-212	S	SN15		0.087	0.049	0.212	9.197	15.940
		SN15	4	Mean	0.283	0.066	0.301	7.680
				SD	0.422	0.044	0.122	1.595
				n	4	4	3	4
							4	4
P2000-079	S	SR06		0.060	BDL	BDL	23.461	42.008
P2000-080	S	SR06		0.071	0.116	1.337	18.986	25.227
		SR06	2	Mean	0.066	0.116	1.337	21.224
				SD	0.008	-	-	3.165
				n	2	1	1	2
							2	2
P2000-089	S	SR18		BDL	0.280	0.322	11.307	43.770
P2000-090	S	SR18		0.022	0.044	0.409	3.908	17.937
		SR18	2	Mean	0.022	0.162	0.365	7.608
				SD	-	0.166	0.061	5.232
				n	1	2	2	2
							2	2
P2000-074	S	SR22		0.046	0.189	0.359	10.167	36.101
P2000-075	S	SR22		0.041	0.233	0.359	10.683	30.359
P2000-076	S	SR22		BDL	0.071	0.243	12.413	30.376
P2000-078	S	SR22		BDL	0.117	0.245	11.987	24.135
		SR22	4	Mean	0.043	0.153	0.302	11.312
				SD	0.004	0.072	0.066	30.243
				n	2	4	4	4.887
							4	4

Continued

**Table 7-15A.** Continued

SampleID	Species	BoxID	Box N					
				As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Mountain Bluebird</u>								
P2000-150	BS	SH08		BDL	0.094	0.270	9.114	23.027
P2000-152	BS	SH08		0.166	0.139	0.293	18.830	42.357
P2000-154	BS	SH08		BDL	0.068	0.182	8.822	25.893
		SH08	3	Mean	0.166	0.100	0.248	12.256
				SD	-	0.036	0.059	5.696
				n	1	3	3	10.432
							3	3
<u>Tree Swallow</u>								
P2000-147	TS	SH02		BDL	0.670	0.488	42.120	44.852
P2000-148	TS	SH02		BDL	0.869	BDL	19.128	55.192
		SH02	2	Mean	-	0.770	0.488	30.624
				SD	-	0.141	-	50.022
				n	0	2	1	16.257
							2	7.312
							2	2
P2000-164	TS	SI18		BDL	0.146	0.082	9.784	37.848
P2000-165	TS	SI18		BDL	0.255	0.113	17.618	37.126
P2000-167	TS	SI18		BDL	0.385	0.383	23.615	44.182
P2000-168	TS	SI18		BDL	0.225	0.111	12.308	45.166
		SI18	4	Mean	-	0.253	0.172	15.831
				SD	-	0.100	0.141	41.080
				n	0	4	4	6.131
							4	4.179
							4	4
P2000-204	TS	SN02		BDL	0.114	BDL	6.246	31.255
P2000-205	TS	SN02		BDL	0.098	0.072	8.210	28.140
		SN02	2	Mean	-	0.106	0.072	7.228
				SD	-	0.011	-	29.697
				n	0	2	1	1.389
							2	2.202
							2	2

Continued

**Table 7-15A.** Continued

SampleID	Species	BoxID	Box N	As		Cd		Pb	Cu	Zn
				ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
P2000-274	TS	SO16		BDL	0.245	BDL	13.677	43.744		
P2000-275	TS	SO16		BDL	0.238	BDL	15.849	46.782		
		SO16	2	Mean	-	0.241	-	14.763	45.263	
				SD	-	0.005	-	1.536	2.148	
				n	0	2	0	2	2	2
P2000-230	TS	SR10		BDL	0.250	BDL	39.686	55.531		
P2000-231	TS	SR10		BDL	0.059	0.129	12.421	66.998		
		SR10	2	Mean	-	0.155	0.129	26.053	61.265	
				SD	-	0.135	-	19.280	8.108	
				n	0	2	1	2	2	2

**Table 7-16A.** Kidney metal and As concentrations from opportunistically collected passerine mortalities. Anaconda Smelter Site, 2000. BDL is below detection limit. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Box N	As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>European Starling</u>								
P2000-092	S	SN04	1	5.157	0.403	1.324	6.920	23.814
P2000-206	S	SN06	1	0.126	0.049	0.107	1.918	8.329
P2000-208	S	SN09	1	1.893	0.087	2.569	30.026	29.164
P2000-213	S	SN15		4.248	0.107	BDL	23.997	23.972
P2000-210	S	SN15		0.855	0.037	0.715	8.478	18.859
P2000-211	S	SN15		1.012	0.050	1.259	9.901	21.961
P2000-212	S	SN15		0.718	0.064	0.960	17.886	20.579
		SN15	4	Mean	1.708	0.065	0.978	15.065
				SD	1.698	0.030	0.272	7.252
				n	4	4	3	4
P2000-079	S	SR06		0.113	0.030	4.103	8.331	23.615
P2000-080	S	SR06		BDL	0.039	3.844	7.500	21.169
		SR06	2	Mean	0.113	0.034	3.973	7.916
				SD	-	0.007	0.183	0.588
				n	1	2	2	2
P2000-089	S	SR18		0.313	0.305	1.033	5.938	23.945
P2000-090	S	SR18		BDL	0.073	1.550	3.550	14.226
		SR18	2	Mean	0.313	0.189	1.292	4.744
				SD	-	0.164	0.366	1.688
				n	1	2	2	2
P2000-074	S	SR22		0.231	0.137	1.821	5.641	21.051
P2000-075	S	SR22		0.461	0.052	3.660	6.552	22.172
P2000-076	S	SR22		0.123	0.082	3.218	5.188	19.394
P2000-078	S	SR22		0.191	0.301	3.023	6.276	16.565
		SR22	4	Mean	0.251	0.143	2.931	5.914
				SD	0.147	0.111	0.786	0.616
				n	4	4	4	4

Continued

**Table 7-16A.** Continued

SampleID	Species	BoxID	Box N					
				As ug/g	Cd ug/g	Pb ug/g	Cu ug/g	Zn ug/g
<u>Mountain Bluebird</u>								
P2000-150	BS	SH08		0.384	0.062	0.480	29.132	17.322
P2000-152	BS	SH08		2.237	0.166	0.492	59.493	33.121
P2000-154	BS	SH08		BDL	0.051	0.420	10.974	17.834
		SH08	3	Mean	1.310	0.093	0.464	33.200
				SD	1.310	0.063	0.039	24.514
				n	2	3	3	8.977
							3	3
<u>Tree Swallow</u>								
P2000-147	TS	SH02		0.861	0.603	0.591	29.574	39.348
P2000-148	TS	SH02		BDL	0.836	BDL	42.850	36.813
		SH02	2	Mean	0.861	0.720	0.591	36.212
				SD	-	0.165	-	38.080
				n	1	2	1	9.388
							2	1.793
								2
P2000-164	TS	SI18		BDL	0.305	BDL	40.174	35.826
P2000-165	TS	SI18		0.267	0.220	BDL	22.740	23.842
P2000-167	TS	SI18		0.448	0.272	BDL	30.131	29.764
P2000-168	TS	SI18		BDL	0.238	BDL	39.815	26.080
		SI18	4	Mean	0.358	0.259	-	33.215
				SD	0.128	0.038	-	28.878
				n	2	4	0	8.391
							4	5.236
								4
P2000-204	TS	SN02		BDL	0.138	BDL	16.222	22.037
P2000-205	TS	SN02		BDL	0.178	BDL	21.320	24.327
		SN02	2	Mean	-	0.158	-	18.771
				SD	-	0.029	-	23.182
				n	0	2	0	3.605
							2	1.619
								2
P2000-274	TS	SO16		BDL	0.184	BDL	55.620	36.179
P2000-275	TS	SO16		BDL	0.187	BDL	25.356	29.231
		SO16	2	Mean	-	0.186	-	40.488
				SD	-	0.002	-	32.705
				n	0	2	0	21.400
							2	4.913
								2

Continued

**Table 7-16A.** Continued

SampleID	Species	BoxID	Box N	As		Cd		Pb		Cu		Zn	
				ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	
P2000-230	TS	SR10		BDL	0.225	BDL	53.347	46.891					
P2000-231	TS	SR10		BDL	0.071	BDL	36.124	29.295					
		SR10	2	Mean	-	0.148	-	44.736	38.093				
				SD	-	0.109	-	12.178	12.442				
				n	0	2	0	2	2				

**Table 7-17A.** Liver porphyrins from European Starlings. Anaconda Smelter Site, 1999.

SampleID	Species	BoxID	Individual	Box N	Carboxyl Porphyrins		
					4 pmol/g	2 pmol/g	Total pmol/g
<u>European Starling</u>							
P1999-046	S	SK01	A		38.005	8.068	50.098
P1999-047	S	SK01	B		60.155	6.855	73.713
		SK01		2	Mean 49.080	7.462	61.905
					SD 15.662	0.858	16.698
				n 2		2	2
P1999-052	S	SK04	B	1	48.607	8.253	60.519
P1999-056	S	SK12	C	1	38.842	4.884	43.726
P1999-058	S	SK15	B	1	48.205	11.855	60.060
P1999-062	S	SL03	C	1	80.606	14.081	94.687
P1999-063	S	SL09	A	1	38.655	11.900	61.266
P1999-065	S	SL12	A	1	61.453	10.776	80.610
P1999-067	S	SL20	A	1	70.543	10.923	81.467
P1999-072	S	SN01	C	1	72.977	17.819	90.796
P1999-078	S	SN06	B	1	24.687	7.870	32.557
P1999-081	S	SN07	A	1	20.516	6.075	26.591
P1999-085	S	SN13	C	1	38.747	12.322	51.069
P1999-090	S	SN14	D	1	40.397	7.847	48.244
P1999-096	S	SO05	B	1	43.506	7.498	51.005
P1999-102	S	SO12	B	1	49.694	13.721	63.415
P1999-106	S	SO13	B	1	23.875	7.151	31.026
P1999-110	S	SO14	C	1	21.114	5.797	26.912
P1999-115	S	SO18	D	1	21.472	3.759	25.231
P1999-124	S	SQ02	D	1	29.213	10.068	39.281
P1999-129	S	SQ05	A	1	7.284	2.361	9.644
P1999-131	S	SQ08	A	1	17.411	6.101	23.512
P1999-138	S	SQ12	A	1	21.383	5.115	26.498
P1999-136	S	SQ17	B	1	47.081	11.636	67.411

**Table 7-18A.** Liver porphyrins from European Starlings. Anaconda Smelter Site, 2000.

SampleID	Species	BoxID	Individual	Box N	Carboxyl Porphyrins		
					4 pmol/g	2 pmol/g	Total pmol/g
<u>European Starling</u>							
P2000-019	S	SK01	Pl	1	63.370	10.374	94.857
P2000-034	S	SK12	Gr		80.868	14.932	117.851
P2000-010	S	SK12	Or		85.252	19.631	104.883
P2000-022	S	SK12	Pr		75.850	17.320	100.909
P2000-031	S	SK12	Yr		87.240	11.384	110.921
		SK12		4	Mean SD n	15.817 3.523 4	108.641 7.392 4
P2000-017	S	SL06	Gr		74.678	17.132	114.852
P2000-012	S	SL06	Or		81.607	21.894	156.012
P2000-011	S	SL06	Yr		96.589	14.881	144.997
		SL06		3	Mean SD n	17.969 3.581 3	138.621 21.308 3
P2000-001	S	SL11	Br	1	84.238	15.028	99.266
P2000-032	S	SN01	Pr	1	121.532	17.816	139.347
P2000-025	S	SN03	Ol	1	82.511	13.225	95.736
P2000-024	S	SN04	Or	1	41.004	12.133	62.988
P2000-065	S	SN05	A	1	88.868	16.806	140.499
P2000-062	S	SN06	A	1	38.117	18.209	81.503
P2000-005	S	SN08	Or	1	141.914	18.840	182.055
P2000-004	S	SN09	Pr	1	51.184	7.154	58.338
P2000-029	S	SN10	A		50.034	28.342	78.375
P2000-014	S	SN10	B		108.501	27.198	135.699
P2000-027	S	SN10	C		101.628	16.351	117.979
P2000-016	S	SN10	Or		110.096	21.775	131.871
		SN10		4	Mean SD n	23.416 5.513 4	115.981 26.201 4
P2000-028	S	SN13	Yl	1	123.083	20.377	143.460
P2000-033	S	SP01	Gl	1	58.315	9.036	96.489

Continued

**Table 7-18A.** Continued

SampleID	Species	BoxID	Individual	Box N	Carboxyl Porphyrins		
					4 pmol/g	2 pmol/g	Total pmol/g
P2000-013	S	SP04	Gl		41.126	17.288	89.204
P2000-003	S	SP04	Pl		136.330	14.978	151.309
P2000-026	S	SP04	Yl		58.702	31.799	90.502
		SP04		3	Mean	78.720	21.355
					SD	50.660	9.118
					n	3	3
P2000-007	S	SR01	Gl		108.067	14.307	122.374
P2000-009	S	SR01	Ol		66.354	10.986	116.280
P2000-023	S	SR01	Pl		86.085	14.528	100.613
P2000-002	S	SR01	Pr		57.127	10.436	67.563
P2000-008	S	SR01	Yl		56.200	16.896	83.869
		SR01		5	Mean	74.767	13.431
					SD	22.157	2.689
					n	5	5
P2000-021	S	SR02	Ol	1	41.949	8.492	50.441
P2000-018	S	SR04	Yr	1	47.897	13.471	61.368
P2000-030	S	SR05	Gr	1	58.530	15.903	74.433
P2000-020	S	SR13	Gl	1	155.837	10.910	166.747
P2000-035	S	SR14	Yl	1	35.066	5.892	48.686
P2000-015	S	SR16	Rr	1	75.690	13.055	88.745
P2000-006	S	SR19	Yl	1	24.630	8.025	32.655

**Table 7-19A.** Kidney porphyrins from European Starlings. Anaconda Smelter Site, 1999.

SampleID	Species	Box ID	Individual	Box N	Carboxyl Porphyrins		
					4 pmol/g	2 pmol/g	Total pmol/g
<u>European Starling</u>							
P1999-046	S	SK01	A		40.173	25.469	79.755
P1999-047	S	SK01	B		49.027	24.165	89.327
		SK01		2	Mean	44.600	24.817
					SD	6.261	0.923
					n	2	2
P1999-052	S	SK04	B	1	35.408	12.746	55.737
P1999-056	S	SK12	C	1	119.543	29.720	173.488
P1999-058	S	SK15	B	1	41.180	20.606	71.878
P1999-062	S	SL03	C	1	36.922	15.486	64.870
P1999-063	S	SL09	A	1	66.711	19.108	101.515
P1999-065	S	SL12	A	1	114.526	25.891	157.978
P1999-067	S	SL20	A	1	68.319	23.756	108.883
P1999-072	S	SN01	C	1	46.133	20.900	84.641
P1999-078	S	SN06	B	1	41.614	10.901	63.430
P1999-081	S	SN07	A	1	49.225	19.221	81.533
P1999-085	S	SN13	C	1	40.016	12.487	68.414
P1999-090	S	SN14	D	1	35.931	12.202	64.357
P1999-096	S	SO05	B	1	38.387	10.981	68.852
P1999-102	S	SO12	B	1	26.358	16.469	52.690
P1999-106	S	SO13	B	1	19.502	10.373	38.201
P1999-110	S	SO14	C	1	22.239	10.366	32.605
P1999-115	S	SO18	D	1	19.346	8.176	38.889
P1999-124	S	SQ02	D	1	20.675	9.583	39.586
P1999-129	S	SQ05	A	1	14.162	6.534	31.225
P1999-131	S	SQ08	A	1	32.881	9.530	51.722
P1999-138	S	SQ12	A	1	32.154	14.700	60.749
P1999-136	S	SQ17	B	1	24.601	16.418	51.935

**Table 7-20A.** Kidney porphyrins from European Starlings. Anaconda Smelter Site, 2000.

SampleID	Species	BoxID	Individual	Box N	Carboxyl Porphyrins		
					4 pmol/g	2 pmol/g	Total pmol/g
<u>European Starling</u>							
P2000-019	S	SK01	Pl	1	68.370	21.584	130.751
P2000-034	S	SK12	Gr		87.032	36.095	160.211
P2000-010	S	SK12	Or		92.435	56.684	224.866
P2000-022	S	SK12	Pr		99.325	43.392	184.699
P2000-031	S	SK12	Yr		121.843	41.263	190.869
		SK12		4	Mean SD n	44.359 8.770 4	190.162 26.657 4
P2000-017	S	SL06	Gr		87.958	25.806	113.764
P2000-012	S	SL06	Or		88.444	24.392	112.835
P2000-011	S	SL06	Yr		162.774	39.707	202.482
		SL06		3	Mean SD n	29.969 8.464 3	143.027 51.491 3
P2000-001	S	SL11	Br	1	102.428	34.292	136.719
P2000-032	S	SN01	Pr	1	83.840	26.190	155.490
P2000-025	S	SN03	Ol	1	47.962	22.994	84.377
P2000-024	S	SN04	Or	1	67.074	26.178	129.453
P2000-065	S	SN05	A	1	120.734	39.131	159.865
P2000-062	S	SN06	A	1	63.802	35.036	128.167
P2000-005	S	SN08	Or	1	118.925	30.216	149.141
P2000-004	S	SN09	Pr	1	40.684	17.496	85.868
P2000-029	S	SN10	A		62.192	38.734	161.266
P2000-014	S	SN10	B		65.085	17.147	82.233
P2000-027	S	SN10	C		61.423	20.935	116.992
P2000-016	S	SN10	Or		27.963	19.744	93.283
		SN10		4	Mean SD n	24.140 9.857 4	113.444 35.025 4
P2000-028	S	SN13	Yl	1	44.242	17.762	62.004

Continued

**Table 7-20A.** Continued

SampleID	Species	BoxID	Individual	Box N	Carboxyl Porphyrins		
					4 pmol/g	2 pmol/g	Total pmol/g
P2000-033	S	SP01	Gl	1	43.479	19.667	102.051
P2000-013	S	SP04	Gl		56.679	49.264	146.673
P2000-003	S	SP04	Pl		42.871	19.990	96.863
P2000-026	S	SP04	Yl		40.714	23.951	64.664
		SP04		3	Mean	46.754	31.068
					SD	8.662	15.882
					n	3	3
P2000-007	S	SR01	Gl		56.693	15.105	71.799
P2000-009	S	SR01	Ol		52.551	21.822	114.694
P2000-023	S	SR01	Pl		73.166	24.347	97.513
P2000-002	S	SR01	Pr		79.716	25.116	104.832
P2000-008	S	SR01	Yl		46.235	23.247	69.482
		SR01		5	Mean	61.672	21.927
					SD	14.177	4.010
					n	5	5
P2000-021	S	SR02	Ol	1	53.140	20.910	107.230
P2000-018	S	SR04	Yr	1	47.807	19.518	85.426
P2000-030	S	SR05	Gr	1	46.899	22.471	69.371
P2000-020	S	SR13	Gl	1	97.358	27.061	163.812
P2000-035	S	SR14	Yl	1	56.794	21.823	78.617
P2000-015	S	SR16	Rr	1	67.647	18.280	85.927
P2000-006	S	SR19	Yl	1	56.380	38.022	126.137

**Table 7-21A.** Multiple regression equations of kidney and liver porphyrins and metals combining data from 1999 and 2000.

Parameter	Factor	Kidney			Liver		
		4-CP	2-CP	TOT-CP	4-CP	2-CP	TOT-CP
[0]	Intercept	263.751	92.093	372.095	27.778	2.3706	41.870
[1]	As	-15.754	-6.026	-28.386	-26.4	-1.6	-31.199
[2]	Cd	41.970	15.963	66.404	8.384	3.199	18.958
[3]	Pb	8.370	-0.230	13.416	17.383	-0.311	19.859
[4]	Cu	132.511	14.764	114.455	6.94	-0.470	9.085
[5]	Zn	-204.016	-51.024	-231.209	6.584	8.014	11.943
Correlation ( R )		0.676	0.628	0.718	0.798	0.744	0.683

**Table 7-22A.** d-Aminolevulinic acid dehydratase (ALAD) activity as measured in blood samples from passerine nestlings inhabiting the Anaconda Smelter Superfund site.

SampleID	SampleAbbr	Species	PCV	BoxID	ALAD
<u>European Starling</u>					
P2000-019	SK01	S	43	SK01	57.01
P2000-040	SK01	S	44	SK01	52.82
		SK01		Mean	54.92
				SD	2.96
				n	2
P2000-010	SK12	S	43	SK12	79.62
P2000-022	SK12	S	45	SK12	77.58
P2000-034	SK12	S	42	SK12	79.90
		SK12		Mean	79.03
				SD	1.27
				n	3
P2000-011	SL06	S	34	SL06	98.18
P2000-012	SL06	S	30	SL06	95.88
P2000-017	SL06	S	30	SL06	80.39
		SL06		Mean	91.48
				SD	9.68
				n	3
P2000-001	SL11	S	31	SL11	81.56
P2000-032	SN01	S	47	SN01	78.62
P2000-046	SN01	S	37	SN01	68.37
P2000-047	SN01	S	45	SN01	55.80
P2000-048	SN01	S	34	SN01	88.35
P2000-049	SN01	S	40	SN01	75.50
		SN01		Mean	73.33
				SD	12.15
				n	5
P2000-025	SN03	S	40	SN03	112.44
P2000-037	SN03	S	37	SN03	105.56
P2000-059	SN03	S	40	SN03	101.70
		SN03		Mean	106.57
				SD	5.44
				n	3

Continued

**Table 7-22A.** Continued

SampleID	SampleAbbr	Species	PCV	BoxID	ALAD
P2000-024	SN04	S	41	SN04	85.00
P2000-057	SN04	S	35	SN04	134.55
		SN04		Mean	109.78
				SD	35.04
				n	2
P2000-065	SN05	S	34	SN05	135.26
P2000-066	SN05	S	39	SN05	132.16
P2000-067	SN05	S	40	SN05	127.88
P2000-068	SN05	S	40	SN05	137.48
		SN05		Mean	133.20
				SD	4.16
				n	4
P2000-062	SN06	S	40	SN06	135.72
P2000-063	SN06	S	41	SN06	153.27
P2000-064	SN06	S	36	SN06	140.90
		SN06		Mean	143.30
				SD	9.02
				n	3
P2000-005	SN08	S	36	SN08	86.47
P2000-058	SN08	S	25	SN08	134.52
		SN08		Mean	110.50
				SD	33.98
				n	2
P2000-004	SN09	S	30	SN09	129.66
P2000-041	SN09	S	34	SN09	78.24
P2000-042	SN09	S	40	SN09	90.63
		SN09		Mean	99.51
				SD	26.84
				n	3
P2000-014	SN10	S	37	SN10	98.36
P2000-016	SN10	S	29	SN10	84.66
P2000-027	SN10	S	27	SN10	110.07
P2000-029	SN10	S	35	SN10	87.63
		SN10		Mean	95.18
				SD	11.54
				n	4

Continued

**Table 7-22A. Continued**

SampleID	SampleAbbr	Species	PCV	BoxID	ALAD
P2000-028	SN13	S	33	SN13	78.65
P2000-043	SN13	S	20	SN13	86.19
P2000-044	SN13	S	44	SN13	52.25
P2000-045	SN13	S	37 <sup>1</sup>	SN13	78.99
		SN13		Mean	74.02
				SD	14.92
				n	4
P2000-060	SP01	S	39	SP01	61.00
P2000-061	SP01	S	40	SP01	79.66
		SP01		Mean	70.33
				SD	13.19
				n	2
P2000-013	SP04	S	34	SP04	95.76
P2000-026	SP04	S	31	SP04	116.89
		SP04		Mean	106.33
				SD	14.94
				n	2
P2000-002	SR01	S	37 <sup>1</sup>	SR01	130.88
P2000-007	SR01	S	47	SR01	103.96
P2000-008	SR01	S	55	SR01	72.07
P2000-023	SR01	S	30	SR01	171.82
		SR01		Mean	119.68
				SD	42.26
				n	4
P2000-038	SR02	S	44	SR02	109.76
P2000-039	SR02	S	41	SR02	80.65
		SR02		Mean	95.21
				SD	20.58
				n	2
P2000-018	SR04	S	35	SR04	126.45
P2000-055	SR04	S	45	SR04	115.61
P2000-056	SR04	S	34	SR04	130.19
		SR04		Mean	124.08
				SD	7.57
				n	3

Continued

**Table 7-22A. Continued**

SampleID	SampleAbbr	Species	PCV	BoxID	ALAD
P2000-030	SR05	S	43	SR05	124.44
P2000-020	SR13	S	32	SR13	128.19
P2000-050	SR13	S	38	SR13	81.84
P2000-051	SR13	S	34	SR13	105.07
P2000-052	SR13	S	32	SR13	101.83
		SR13		Mean	104.23
				SD	18.99
				n	4
P2000-035	SR14	S	32	SR14	112.10
P2000-053	SR14	S	27	SR14	165.08
P2000-054	SR14	S	29	SR14	158.47
		SR14		Mean	145.22
				SD	28.87
				n	3
P2000-015	SR16	S	40	SR16	102.76
P2000-006	SR19	S	55	SR19	109.22
<u>Mountain Bluebird</u>					
1	B#23	B	35	B#23	126.69
1	B#23	B	41 <sup>1</sup>	B#23	126.43
1	K#21	BK	49	K#21	108.63
1	SB07	BS	43	SB07	71.13
1	SB07	BS	36	SB07	96.93
1	SC02	BS	39	SC02	48.97
1	SC10	BS	44	SC10	45.75
1	SF03	BS	41	SF03	92.13
1	SF03	BS	43	SF03	106.99
1	SG01	BS	34	SG01	95.86
1	SH08	BS	46	SH08	95.50
1	SH12	BS	39	SH12	68.85

Continued

**Table 7-22A.** Continued

SampleID	SampleAbbr	Species	PCV	BoxID	ALAD
<u>Mountain Bluebird Continued</u>					
1	SI06	BS	42	SI06	78.96
1	SK07	BS	45	SK07	54.12
1	SK13	BS	41 <sup>1</sup>	SK13	121.15
1	SM09-1	BS	41	SM09-1	88.54
1	SM09-2	BS	40	SM09-2	111.33
1	SO17	BS	44	SO17	87.62
<u>Chickadee</u>					
1	B#38	CB	47	B#38	108.40
1	SB12	CS	58	SB12	26.04
1	SL02	CS	52	SL02	100.13
<u>Tree Swallow</u>					
1	B#36	TB	61	B#36	55.64
1	SB03	TS	51	SB03	85.74
1	SH02	TS	63	SH02	55.26
1	SI18	TS	38	SI18	99.60
1	SJ06	TS	44	SJ06	66.04
1	SK05	TS	43	SK05	64.24
1	SK09	TS	47 <sup>1</sup>	SK09	97.53
1	SN02	TS	40	SN02	62.12
1	SO02	TS	43	SO02	76.91
1	SO16	TS	56	SO16	99.87
1	SR10	TS	29	SR10	133.19

1. Small blood volume precluded PCV measurement. Species PCV average was used to calculate ALAD Activity

**Table 7-23A.** Tissue weights of passerines collected from the Anaconda Smelter site, 1999.  
N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	N	Kidney (grams)	Liver (grams)	Bursa (grams)	Spleen (grams)	Brain (grams)
<u>European Starling</u>									
P1999-046	S	SK01	A		1.058	3.925			
P1999-047	S	SK01	B		0.825	3.639			
		SK01		2	Mean SD n	0.942 0.165 2	3.782 0.202 2	- - 0	- - 0
P1999-051	S	SK04	A		1.093	3.631	0.134	0.093	1.474
P1999-052	S	SK04	B		1.154	4.124			
P1999-053	S	SK04	C		0.730	4.196			
		SK04		3	Mean SD n	0.992 0.229 3	3.984 0.308 3	0.134 - 1	0.093 - 1
P1999-054	S	SK12	A		0.705	3.125			
P1999-056	S	SK12	C		1.033	4.117	0.092	0.078	1.429
		SK12		2	Mean SD n	0.869 0.231 2	3.621 0.701 2	0.092 - 1	0.078 - 1
P1999-057	S	SK15	A		0.488	1.201			
P1999-058	S	SK15	B		0.988	3.947			
P1999-059	S	SK15	C		1.189	3.902	0.111	0.106	1.496
		SK15		3	Mean SD n	0.888 0.361 3	3.016 1.573 3	0.111 - 1	0.106 - 1
P1999-060	S	SL03	A		1.198	4.296	0.102	0.090	1.485
P1999-061	S	SL03	B		0.944	4.112			
P1999-062	S	SL03	C		0.785	2.465			
		SL03		3	Mean SD n	0.975 0.209 3	3.624 1.008 3	0.102 - 1	0.090 - 1

Continued

**Table 7-23A.** Continued

SampleID	Species	BoxID	Individual	N	Kidney (grams)	Liver (grams)	Bursa (grams)	Spleen (grams)	Brain (grams)	
P1999-063	S	SL09	A		1.277	3.887	0.110	0.086	1.403	
P1999-064	S	SL09	B		1.165	4.624				
		SL09		2	Mean SD n	1.221 0.079 2	4.255 0.521 2	0.110 - 1	0.086 - 1	
P1999-065	S	SL12	A		1.176	4.640	0.108	0.228	1.570	
P1999-066	S	SL12	B		0.899	4.418				
		SL12		2	Mean SD n	1.038 0.196 2	4.529 0.157 2	0.108 - 1	0.228 - 1	
P1999-067	S	SL20	A		1.321	4.732	0.065	0.167	1.436	
P1999-069	S	SL20	C		1.068	5.520				
		SL20		2	Mean SD n	1.195 0.179 2	5.126 0.557 2	0.065 - 1	0.167 - 1	
P1999-072	S	SN01	C		0.671	1.873		0.046	1.358	
P1999-073	S	SN01	D		0.836	2.943				
		SN01		2	Mean SD n	0.753 0.117 2	2.408 0.757 2	- - 0	0.046 - 1	
P1999-077	S	SN06	A		0.975	3.210	0.103	0.086	1.584	
P1999-078	S	SN06	B		0.907	3.039				
P1999-080	S	SN06	D		0.588	2.788				
		SN06		3	Mean SD n	0.823 0.206 3	3.012 0.212 3	0.103 - 1	0.086 - 1	
P1999-081	S	SN07	A	1		1.022	4.800	0.124	0.150	1.577

Continued

**Table 7-23A.** Continued

SampleID	Species	BoxID	Individual	N	Kidney (grams)	Liver (grams)	Bursa (grams)	Spleen (grams)	Brain (grams)
P1999-083	S	SN13	A		0.608	2.847			
P1999-084	S	SN13	B		0.912	2.682	0.100	0.068	1.395
P1999-085	S	SN13	C		0.889	3.312			
		SN13		3	Mean SD n	0.803 0.169 3	2.947 0.327 3	0.100 - 1	0.068 - 1
P1999-087	S	SN14	A		0.995	2.945	0.134	0.109	1.568
P1999-089	S	SN14	C		0.838	3.547			
P1999-090	S	SN14	D		0.887	3.352			
		SN14		3	Mean SD n	0.907 0.080 3	3.281 0.307 3	0.134 - 1	0.109 - 1
P1999-095	S	SO05	A		0.897	3.447			
P1999-096	S	SO05	B		0.808	3.007			
P1999-097	S	SO05	C		1.071	3.322	0.248	0.146	1.529
		SO05		3	Mean SD n	0.925 0.134 3	3.259 0.227 3	0.248 - 1	0.146 - 1
P1999-101	S	SO12	A		0.601	2.234			
P1999-102	S	SO12	B		0.783	1.873			
P1999-104	S	SO12	D		0.782	1.578	0.071	0.057	1.501
		SO12		3	Mean SD n	0.722 0.105 3	1.895 0.329 3	0.071 - 1	0.057 - 1
P1999-105	S	SO13	A		0.968	4.572			
P1999-106	S	SO13	B		1.052	4.393			
P1999-107	S	SO13	C				0.196	0.075	1.643
		SO13		3	Mean SD n	1.010 0.060 2	4.483 0.126 2	0.196 - 1	0.075 - 1

Continued

**Table 7-23A.** Continued

SampleID	Species	BoxID	Individual	N	Kidney (grams)	Liver (grams)	Bursa (grams)	Spleen (grams)	Brain (grams)
P1999-108	S	SO14	A		1.096	3.831	0.167	0.110	1.659
P1999-109	S	SO14	B		0.853	3.753			
P1999-110	S	SO14	C		0.951	3.766			
		SO14		3	Mean SD n	0.967 0.122 3	3.783 0.042 3	0.167 -	0.110 - 1
P1999-112	S	SO18	A		1.282	4.094		0.261	1.434
P1999-113	S	SO18	B		0.966	4.631			
		SO18		2	Mean SD n	1.124 0.224 2	4.363 0.380 2	- 0 1	0.261 - 1
P1999-121	S	SQ02	A		0.820	3.611			
P1999-123	S	SQ02	C		1.034	3.191	0.126	0.084	1.511
P1999-124	S	SQ02	D		0.821	3.258			
		SQ02		3	Mean SD n	0.892 0.123 3	3.353 0.226 3	0.126 -	0.084 - 1
P1999-129	S	SQ05	A		0.820	2.080			
P1999-130	S	SQ05	B		0.378	1.371			
		SQ05		2	Mean SD n	0.599 0.313 2	1.725 0.501 2	- 0 0	- 0 0
P1999-131	S	SQ08	A		0.908	2.856			
P1999-132	S	SQ08	B		0.710	1.505	0.034	0.011	1.332
P1999-133	S	SQ08	C		0.662	2.594			
		SQ08		3	Mean SD n	0.760 0.130 3	2.318 0.717 3	0.034 -	0.011 - 1
P1999-138	S	SQ12	A	1		1.105	4.851	0.229	0.087
									1.560

Continued

**Table 7-23A.** Continued

SampleID	Species	BoxID	Individual	N	Kidney (grams)	Liver (grams)	Bursa (grams)	Spleen (grams)	Brain (grams)
P1999-135	S	SQ17	A		0.827	3.618			
P1999-136	S	SQ17	B		1.070	2.664	0.172	0.079	1.555
		SQ17		2	Mean SD n	0.949 0.172 2	3.141 0.674 2	0.172 - 1	0.079 - 1
<u>Mountain Bluebird</u>									
P1999-003	BK	K#08	C	1	0.382	1.499	0.052	0.061	0.540
P1999-005	BK	K#18	B	1	0.371	1.135	0.045	0.042	0.879
P1999-037	BS	SF09	A	1	0.381	1.079	0.081	0.047	0.828
P1999-041	BS	SH12	A	1		1.087	0.048	0.027	0.949
<u>Chickadee</u>									
P1999-014	CB	B#44	C	1	0.137	0.509	0.032	0.042	0.682
<u>Tree Swallow</u>									
P1999-007	TB	B#29	A		0.281	0.789	0.056	0.028	0.481
P1999-011	TB	B#29	E		0.242	0.823			
		B#29		2	Mean SD n	0.262 0.028 2	0.806 0.024 2	0.056 - 1	0.028 - 1
P1999-023	TK	K#47	B		0.324	1.073			
P1999-024	TK	K#47	C		0.316	1.223	0.039	0.078	0.452
		K#47		2	Mean SD n	0.320 0.006 2	1.148 0.106 2	0.039 - 1	0.078 - 1

Continued

**Table 7-23A.** Continued

SampleID	Species	BoxID	Individual	N	Kidney (grams)	Liver (grams)	Bursa (grams)	Spleen (grams)	Brain (grams)
P1999-033	TS	SB12	A		0.313	1.355	0.049	0.069	0.501
P1999-034	TS	SB12	B		0.341	1.483	0.042	0.062	0.428
P1999-035	TS	SB12	C		0.391	2.390	0.053	0.106	0.417
P1999-036	TS	SB12	D		0.396	1.377	0.065	0.098	0.463
		SB12		4	Mean SD n	0.360 0.040 4	1.651 0.495 4	0.052 0.009 4	0.084 0.022 4
P1999-044	TS	SJ10	A		0.350	1.368			
P1999-045	TS	SJ10	B		0.335	1.038	0.038	0.083	0.523
		SJ10		2	Mean SD n	0.343 0.010 2	1.203 0.234 2	0.038 -	0.083 - 1
P1999-116	TS	SP11	A		0.406	1.054	0.062	0.025	0.600
P1999-117	TS	SP11	B		0.296	0.812			
		SP11		2	Mean SD n	0.351 0.078 2	0.933 0.172 2	0.062 - 1	0.025 - 1
P1999-126	TS	SQ03	B		0.363	1.429	0.081	0.072	0.538
P1999-128	TS	SQ03	D		0.198	1.048			
		SQ03		2	Mean SD n	0.280 0.117 2	1.239 0.269 2	0.081 - 1	0.072 - 1
									0.538

**Table 7-24A.** Tissue weights of passerines collected from the Anaconda Smelter site, 2000.  
N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Box N	Kidney	Liver	Bursa	Spleen	Brain
				(grams)	(grams)	(grams)	(grams)	(grams)
<u>European Starlings</u>								
P2000-019	S	SK01	1	0.998	3.264	0.107	0.068	1.387
P2000-034	S	SK12		0.970	2.901	0.102	0.065	1.418
P2000-010	S	SK12		0.787	2.743	0.046	0.044	1.203
P2000-022	S	SK12		0.888	2.782	0.055	0.041	1.261
P2000-031	S	SK12		1.099	3.067	0.085	0.077	1.473
		SK12	4	Mean	0.936	2.873	0.072	0.056
				SD	0.132	0.145	0.026	0.017
				n	4	4	4	4
P2000-017	S	SL06		0.884	2.752	0.101	0.066	1.321
P2000-012	S	SL06		0.762	2.634	0.085	0.036	1.200
P2000-011	S	SL06		0.826	2.689	0.071	0.027	1.326
		SL06	3	Mean	0.824	2.691	0.086	0.043
				SD	0.061	0.059	0.015	0.020
				n	3	3	3	3
P2000-001	S	SL11	1	0.991	3.562	0.076	0.099	1.624
P2000-032	S	SN01	1	0.663	2.180	0.157	0.050	1.647
P2000-025	S	SN03	1	0.949	3.321	0.132	0.196	1.536
P2000-024	S	SN04	1	0.861	3.330	0.118	0.096	1.279
P2000-065	S	SN05	1	1.138	3.835			
P2000-062	S	SN06	1	1.342	5.386			
P2000-005	S	SN08	1	0.712	2.133	0.035	0.037	1.027
P2000-004	S	SN09	1	0.828	3.089	0.096	0.153	1.554
P2000-029	S	SN10		0.620	2.038	0.074	0.032	1.444
P2000-014	S	SN10		0.754	2.303	0.069	0.035	1.497
P2000-027	S	SN10		0.666	1.907	0.044	0.023	1.356
P2000-016	S	SN10		0.559	1.411	0.031	0.018	1.433
		SN10	4	Mean	0.650	1.915	0.055	0.027
				SD	0.082	0.374	0.021	0.008
				n	4	4	4	4
P2000-028	S	SN13	1	0.734	1.933	0.100	0.109	1.483
P2000-033	S	SP01	1	0.871	3.052	0.090	0.050	1.430

Continued

**Table 7-24A.** Continued

SampleID	Species	BoxID	Box N	Kidney	Liver	Bursa	Spleen	Brain
				(grams)	(grams)	(grams)	(grams)	(grams)
P2000-013	S	SP04		0.674	2.232	0.085	0.044	1.446
P2000-003	S	SP04		0.846	2.608	0.099	0.035	1.524
P2000-026	S	SP04		0.560	1.288	0.037	0.020	1.227
		SP04	3	Mean	0.693	2.043	0.074	0.033
				SD	0.144	0.680	0.033	0.154
				n	3	3	3	3
P2000-007	S	SR01		0.924	3.261	0.148	0.197	1.519
P2000-009	S	SR01		0.921	4.237	0.102	0.256	
P2000-023	S	SR01		0.902	3.092	0.131	0.187	1.410
P2000-002	S	SR01		0.895	3.459	0.155	0.221	1.227
P2000-008	S	SR01		1.017	3.498	0.113	0.196	1.466
		SR01	5	Mean	0.932	3.509	0.130	0.211
				SD	0.049	0.438	0.022	0.028
				n	5	5	5	4
P2000-021	S	SR02	1	0.785	3.276	0.108	0.082	1.443
P2000-018	S	SR04	1	0.883	4.236	0.105	0.110	1.425
P2000-030	S	SR05	1	0.861	3.403	0.202	0.262	1.510
P2000-020	S	SR13	1	0.748	2.639	0.137	0.072	1.436
P2000-035	S	SR14	1	0.821	3.335	0.048	0.035	1.240
P2000-015	S	SR16	1	0.747	3.313	0.157	0.100	1.681
P2000-006	S	SR19	1	0.991	3.512	0.085	0.161	1.417

**Mountain Bluebird**

P2000-125	B	B#23		0.364	1.025			
P2000-244	B	B#23		0.345	0.891	0.033	0.025	0.882
		B#23	2	Mean	0.354	0.958	0.033	0.025
				SD	0.013	0.095	-	-
				n	2	2	1	1
P2000-113	BK	K#21	1	0.390	1.241			
P2000-094	BS	SB07		0.357	1.188	0.051	0.042	0.857
P2000-114	BS	SB07		0.343	1.204			
		SB07	2	Mean	0.350	1.196	0.051	0.042
				SD	0.010	0.011	-	-
				n	2	2	1	1

Continued

**Table 7-24A.** Continued

SampleID	Species	BoxID	Box N	Kidney	Liver	Bursa	Spleen	Brain
				(grams)	(grams)	(grams)	(grams)	(grams)
P2000-096	BS	SC02	1	0.482	1.256	0.032	0.070	0.855
P2000-124	BS	SC10	1	0.346	1.067			
P2000-122	BS	SF03		0.382	1.025			
P2000-097	BS	SF03		0.412	0.843	0.035	0.046	0.858
		SF03	2	Mean	0.397	0.934	0.035	0.046
				SD	0.022	0.129	-	-
				n	2	2	1	1
P2000-105	BS	SG01	1	0.392	1.294			
P2000-093	BS	SH08	1	0.271	0.913	0.052	0.051	0.930
P2000-111	BS	SH12	1	0.351	1.277			
P2000-115	BS	SI06	1	0.377	1.218			
P2000-100	BS	SK07	1	0.344	0.846	0.030	0.039	0.933
P2000-126	BS	SK13	1	0.331	0.893	0.050	0.029	0.890
P2000-095	BS	SM09-1	1	0.325	1.024	0.037	0.065	0.890
P2000-120	BS	SM09-2	1	0.335	0.877			
P2000-104	BS	SO17	1	0.330	0.849	0.032	0.047	0.873
<b><u>Chickadee</u></b>								
P2000-099	CS	SB12	1	0.149	0.412	0.014	0.009	0.596
P2000-101	CS	SL02	1	0.179	0.560	0.019	0.017	0.638
<b><u>Tree Swallow</u></b>								
P2000-106	TB	B#32	1	0.324	1.015			
P2000-103	TB	B#36	1	0.270	1.034	0.052	0.047	0.511
P2000-123	TS	SB03	1	0.279	0.997			
P2000-108	TS	SH02	1	0.319	1.177			
P2000-116	TS	SI18	1	0.323	1.100			
P2000-112	TS	SJ06	1	0.355	1.019			
P2000-121	TS	SK05	1	0.284	1.580			
P2000-109	TS	SK09	1	0.275	1.153			
P2000-119	TS	SN02	1	0.235	0.795			
P2000-102	TS	SO02	1	0.304	1.178	0.033	0.017	0.444
P2000-107	TS	SO16	1	0.316	1.676			
P2000-110	TS	SP09	1	0.300	1.171			
P2000-231	TS	SR10	1	0.216	0.774			
P2000-117	TS	SR10	1	0.324	1.579			
P2000-230	TS	SR10	1	0.122	0.182			
		SR10	3	Mean	0.220	0.845		
				SD	0.101	0.701		
				n	3	3		

**Table 7-25A. Demographics**  
 European starling demographics from the Anaconda Smelter Site, 1999.

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	H+I	E/D*100	G/E*100	G/(A-B)*100			
			#Eggs	Laid	#Collected	Eggs Missing	Eggs At Hatch	Nestlings At Hatch	#Addled	Nestlings At Fledge	Dead	Missing	Dead/missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency	%Nesting Success	
S	K	SK01	5	0	0	5	5	0	2	3	0	3	100	40	40			
S	K	SK02	6	1	5	0	0	0	0	0	0	0	-	-	-			
S	K	SK04	4	0	0	4	4	0	3	0	1	1	100	75	75			
S	K	SK05	1	0	0	0	0	1	0	0	0	0	-	-	-			
S	K	SK11	4	4	-	-	-	-	-	-	-	0	-	-	-			
S	K	SK12	5	1	0	4	4	0	2	1	1	2	100	50	50			
S	K	SK15	4	0	0	4	3	1	3	0	0	0	75	100	75			
N			7.00	Mean	4.14	0.86	0.83	2.83	2.67	0.33	1.67	0.67	0.33	0.86	93.75	66.25	60.00	
Tot			18.00	SD	1.57	1.46	2.04	2.23	2.16	0.52	1.37	1.21	0.52	1.21	12.50	26.89	17.80	57.14
			n		7	7	6	6	6	6	6	6	7	4	4	4		
S	L	SL03	5	1	0	4	4	0	3	0	1	1	100	75	75			
S	L	SL06	1	0	1	0	0	0	0	0	0	0	-	-	-			
S	L	SL08	1	0	1	0	0	0	0	0	0	0	-	-	-			
S	L	SL09	2	0	0	2	2	0	2	0	0	0	100	100	100			
S	L	SL12	5	1	0	4	3	1	2	0	1	1	75	66.667	50			
S	L	SL15	3	1	0	2	1	1	0	0	1	1	50	0	0			
S	L	SL20	4	0	0	4	3	1	2	1	0	1	75	66.667	50			
N			7.00	Mean	3.00	0.43	0.29	2.29	1.86	0.43	1.29	0.14	0.43	0.57	80.00	61.67	55.00	
Tot			20.00	SD	1.73	0.53	0.49	1.80	1.57	0.53	1.25	0.38	0.53	0.53	20.92	37.08	37.08	57.14
			n		7	7	7	7	7	7	7	7	7	5	5	5		

Continued

**Table 7-25A.** Continued

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	H+I	E/D*100	G/E*100	G/(A-B)*100	
			#EggsLaid	#Collected	Eggs Missing	Eggs At Hatch	Nestlings At Hatch	#Addled	Nestlings At Fledge	Dead	Missing	Dead/missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency	%Nesting Success
S	N	SN01	6	1	0	5	4	1	2	2	0	2	80	50	40	
S	N	SN04	5	5	-	-	-	-	-	-	-	0	-	-	-	
S	N	SN05	4	0	0	4	3	1	0	2	1	3	75	0	0	
S	N	SN06	5	1	0	4	4	0	3	1	0	1	100	75	75	
S	N	SN07	4	1	0	3	2	1	1	1	0	1	66.667	50	33.333	
S	N	SN13	4	0	0	4	3	1	3	0	0	0	75	100	75	
S	N	SN14	6	1	1	5	4	0	3	1	0	1	80	75	60	
S	N	SN20	4	0	0	4	4	0	0	4	0	4	100	0	0	
N		Mean	4.75	1.13	0.14	4.14	3.43	0.57	1.71	1.57	0.14	1.50	82.38	50.00	40.48	
Tot		20.00	SD	0.89	1.64	0.38	0.69	0.79	0.53	1.38	1.27	0.38	1.41	12.83	38.19	31.87
		n	8	8	7	7	7	7	7	7	7	8	7	7	7	
S	O	SO03	4	1	3	0	0	0	0	0	0	0	-	-	-	
S	O	SO04	1	0	0	0	0	1	0	0	0	0	-	-	-	
S	O	SO05	6	1	0	5	3	2	3	0	0	0	60	100	60	
S	O	SO11	5	1	0	4	4	0	0	1	2	3	100	0	0	
S	O	SO12	5	1	0	4	4	0	3	1	0	1	100	75	75	
S	O	SO13	5	1	0	4	3	1	3	0	0	0	75	100	75	
S	O	SO14	5	1	0	4	3	1	3	0	0	0	75	100	75	
S	O	SO16	5	5	-	-	-	-	-	-	-	-	-	-	-	
S	O	SO18	5	1	0	4	4	0	3	1	0	0	100	75	75	
N		Mean	4.56	1.33	0.38	3.13	2.63	0.63	1.88	0.38	0.25	0.57	85.00	75.00	60.00	
Tot		19.00	SD	1.42	1.41	1.06	1.96	1.69	0.74	1.55	0.52	0.71	1.13	17.32	38.73	30.00
		n	9	9	8	8	8	8	8	8	8	7	6	6	6	

Continued

**Table 7-25A.** Continued

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	H+I	E/D*100	G/E*100	G/(A-B)*100	
			#Eggs	Laid	#Collected	Eggs	Eggs	Nestlings	#Addled	Nestlings	Dead	Missing	%Eggs	Hatched	%Fledging	%Nesting
			Missing	At Hatch	At Hatch			At Fledge					Efficiency	Efficiency	Success	
S	Q	SQ05	3	0	0	3	2	1	0	2	0	2	66.667	0	0	0
S	Q	SQ02	5	1	0	4	4	0	3	1	0	1	100	75	75	
S	Q	SQ08	4	0	0	4	4	0	3	1	0	1	100	75	75	
S	Q	SQ12	4	0	0	4	1	3	1	0	0	0	25	100	25	
S	Q	SQ17	4	0	0	4	2	2	2	0	0	0	50	100	50	
S	Q	SQ20	1	0	0	0	0	1	0	0	0	0	-	-	-	
N		Mean	3.50	0.17	0.00	3.17	2.17	1.17	1.50	0.67	0.00	0.67	68.33	70.00	45.00	
Tot	20.00	SD	1.38	0.41	0.00	1.60	1.60	1.17	1.38	0.82	0.00	0.82	32.49	41.08	32.60	66.67
		n	6	6	6	6	6	6	6	6	6	6	5	5	5	

**Table 7-26A. Demographics**  
 European starling demographics from the Anaconda Smelter Site, 2000.

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	F/E*100	G/F*100	G/(A-B)*100
			EggsLaid	Collected	Eggs Missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Chicks At 15 Days	Collected Dead	Dead And Missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency
S	K	SK01	4	1	0	0	3	3	2	1	1	100	66.7	66.7
S	K	SK12	5	1	0	0	4	4	4	0	0	100	100	100
N	2.00	AVG	4.50	1.00	0.00	0.00	3.50	3.50	3.00	0.50	0.50	100.00	83.33	83.33
TOT	18.00	SD	0.71	0.00	0.00	0.00	0.71	0.71	1.41	0.71	0.71	0.00	23.57	23.57
	n		2	2	2	2	2	2	2	2	2	2	2	2
S	L	SL06	5	1	0	0	4	4	3	1	1	100	75	75
S	L	SL11	4	1	0	2	3	1	1	0	0	33.3	100	33.3
N	2.00	AVG	4.50	1.00	0.00	1.00	3.50	2.50	2.00	0.50	0.50	66.67	87.50	54.17
TOT	20.00	SD	0.71	0.00	0.00	1.41	0.71	2.12	1.41	0.71	0.71	47.14	17.68	29.46
	n		2	2	2	2	2	2	2	2	2	2	2	2

Continued

**Table 7-26A. Continued**

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	F/E*100	G/F*100	G/(A-B)*100
			EggsLaid	Collected	Eggs Missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Chicks At 15 Days	Collected Dead	Dead And Missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency
S	N	SN01	5	0	0	0	5	5	5	0	0	100	100	100
S	N	SN03	5	0	0	1	5	4	3	0	1	80	75	60
S	N	SN04	6	0	1	1	5	4	3	1	1	80	75	50
S	N	SN05	5	0	0	1	5	4	4	0	0	80	100	80
S	N	SN06	6	0	0	0	6	6	3	1	3	100	50	50
S	N	SN08	2	0	0	0	2	2	2	0	0	100	100	100
S	N	SN09	5	1	0	0	4	4	3	1	1	100	75	75
S	N	SN10	5	1	0	0	4	4	4	0	0	100	100	100
S	N	SN13	5	0	0	0	5	5	4	0	1	100	80	80
S	N	SN15	5	1	0	0	4	4	0	4	4	100	0	0
N 10.00		AVG	4.90	0.30	0.10	0.30	4.50	4.20	3.10	0.70	1.10	94.00	75.50	69.50
TOT 20.00		SD	1.10	0.48	0.32	0.48	1.08	1.03	1.37	1.25	1.37	9.66	31.22	31.13
		n	10	10	10	10	10	10	10	10	10	10	10	10
S	P	SP01	4	0	0	0	4	4	3	0	1	100	75	75
S	P	SP02	1	0	0	1	0	0	0	0	0	NA	NA	0
S	P	SP04	5	0	0	0	5	5	3	1	2	100	60	60
N 3.00		AVG	3.33	0.00	0.00	0.33	3.00	3.00	2.00	0.33	1.00	100.00	67.50	45.00
TOT 15.00		SD	2.08	0.00	0.00	0.58	2.65	2.65	1.73	0.58	1.00	0.00	10.61	39.69
		n	3	3	3	3	3	3	3	3	3	2	2	3

Continued

**Table 7-26A.** Continued

**Table 7-27A. Demographics**  
 Bluebird, Tree Swallow, and Chickadee demographics from the Anaconda Smelter Site, 2000.

A	B	C	D	E	F	G	H	I	J	K	L	M	I/H*100	(M+J)/I *100	(M+J)/A *100
Species	Site	BoxID	Eggs Laid	Eggs Collected missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Collected At 15 Days	Collected Dead	Dead Missing	Fledged	% Eggs Hatched	% Fledging Efficiency	% Nesting Efficiency	
B	B#23	B#23	6	0	0	6	6	1	0	0	5	100	100	100	
B	B#23	B#23	6	0	0	6	6	1	0	0	5	100	100	100	
BK	K#06	K#06	5	0	0	5	5	0	1	5	0	100	0	0	
BK	K#21	K#21	6	0	0	6	6	1	0	0	5	100	100	100	
BK	K#22	K#22	5	0	0	5	0	0	0	0	0	0	0	0	
BK	K#49	K#49	5	0	4	1	0	0	0	0	0	0	0	0	
BS	B	SB07	5	0	0	2	5	3	1	0	0	2	60	100	60
BS	B	SB07	5	0	0	1	5	4	1	0	0	3	80	100	80
BS	C	SC02	6	0	0	0	6	6	1	1	3	2	100	50	50
BS	C	SC10	5	0	0	2	5	3	1	0	0	2	60	100	60
BS	F	SF03	6	0	0	3	6	3	1	0	1	1	50	66.7	33.3
BS	F	SF03	4	0	0	2	4	2	1	0	1	0	50	50	25
BS	G	SG01	6	0	0	2	6	4	1	0	2	1	66.67	50	33.3
BS	H	SH08	7	0	0	1	7	6	1	3	3	2	85.71	50	42.9
BS	H	SH12	6	0	0	0	6	6	1	0	1	4	100	83.3	83.3
BS	I	SI06	5	0	0	0	5	5	1	0	1	3	100	80	80
BS	K	SK07	4	0	0	0	4	4	1	0	0	3	100	100	100
BS	K	SK13	5	0	0	0	5	5	1	0	0	4	100	100	100
BS	M	SM09-1	6	0	0	0	6	6	1	0	0	5	100	100	100
BS	M	SM09-2	6	0	1	0	6	5	1	0	0	4	83.3	100	83.3
BS	O	SO17	5	0	0	0	5	5	1	0	0	4	100	100	100
Mean		5.43	0.00	0.24	0.90	4.95	4.29	0.86	0.24	0.81	2.62	77.89	72.86	63.39	
SD		0.75	0.00	0.89	1.34	1.80	1.87	0.36	0.70	1.36	1.80	31.57	36.27	36.53	
n		21	21	21	21	21	21	21	21	21	21	21	21	21	
Sum		114	0	5	19	104	90	18	5	17	55				

Continued

**Table 7-27A. Continued**

A	B	C	D	E	F	G	H	I	J	K	L	M	I/H*100	(M+J)/I *100	(M+J)/A *100
Species	Site	BoxID	Eggs Laid	Eggs Collected	Eggs missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Collected At 15 Days	Collected Dead	Dead Missing	Fledged	% Eggs Hatched	% Fledging Efficiency	% Nesting Efficiency
CB	B#38	B#38	6	0	0	5	6	1	1	0	0	0	16.7	100	16.7
CS	B	SB12	7	0	1	4	6	2	1	0	0	1	33.3	100	28.6
CS	L	SL02	9	0	0	1	9	8	1	0	0	7	88.9	100	88.9
		Mean	7.33	0.00	0.33	3.33	7.00	3.67	1.00	0.00	0.00	2.67	46.30	100.00	44.71
		SD	1.53	0.00	0.58	2.08	1.73	3.79	0.00	0.00	0.00	3.79	37.82	0.00	38.72
		n	3	3	3	3	3	3	3	3	3	3	3	3	3
		Sum	22	0	1	10	21	11	3	0	0	8			
TB	B#32	B#32	5	0	0	1	5	4	1	0	0	3	80	100	80
TB	B#36	B#36	6	0	0	0	6	6	1	0	0	5	100	100	100
TS	B	SB03	5	0	0	0	5	5	1	0	0	4	100	100	100
TS	B	SB03	6	0	1	0	5	5	1	0	0	4	100	100	83.3
TS	F	SF10	5	0	3	2	0	0	0	0	0	0	0	0	0
TS	H	SH02	5	0	0	0	5	5	1	2	2	2	100	60	60
TS	I	SI18	6	0	0	0	6	6	1	5	5	0	100	16.7	16.7
TS	J	SJ06	6	0	1	0	5	5	1	0	0	4	100	100	83.3
TS	K	SK05	6	0	1	1	6	5	1	0	0	4	83.3	100	83.3
TS	K	SK09	7	0	0	1	7	6	1	1	1	4	85.7	83.3	71.4
TS	N	SN02	5	0	0	0	5	4	1	3	3	1	80	50	40
TS	O	SO02	5	0	0	1	5	4	1	0	0	3	80	100	80
TS	O	SO16	6	0	0	0	6	6	1	0	0	5	100	100	100
TS	P	SP09	5	0	0	1	5	4	1	0	0	3	80	100	80
TS	R	SR10	5	0	0	0	5	5	1	1	1	3	100	80	80
		Mean	5.53	0.00	0.40	0.47	5.07	4.67	0.93	0.80	0.80	3.00	85.94	79.33	70.54
		SD	0.64	0.00	0.83	0.64	1.53	1.50	0.26	1.47	1.47	1.60	25.52	33.08	29.73
		n	15	15	15	15	15	15	15	15	15	15	15	15	15
		Sum	83	0	6	7	76	70	14	12	12	45			

**Table 7-28A.** Body weight and morphological measurement of passerine chicks at time of collection from sites on the Anaconda Smelter Site, 1999. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	Species	BoxID	Individual	AgeInDays	Box N	Weight (grams)	Bill (mm)	Tarsus (mm)
<u>European Starling</u>								
P1999-046	S	SK01	A	15		70.01	9.53	25.66
P1999-047	S	SK01	B	15		66.06	8.58	25.98
		SK01			2	Mean SD n	68.035 2.793 2	9.055 0.672 2
P1999-051	S	SK04	A	15		69.52	11.06	28.16
P1999-052	S	SK04	B	15		76.23	11.57	28.81
P1999-053	S	SK04	C	15		72.86	10.92	29.34
		SK04			3	Mean SD n	72.870 3.355 3	11.183 0.342 3
P1999-054	S	SK12	A	15		50.65	9.01	30.4
P1999-056	S	SK12	C	15		56.66	8.03	27.44
		SK12			2	Mean SD n	53.655 4.250 2	8.520 0.693 2
P1999-057	S	SK15	A	15		25.71	7.45	26.09
P1999-058	S	SK15	B	15		62.1	9.31	29.74
P1999-059	S	SK15	C	15		-	9.07	30.87
		SK15			3	Mean SD n	43.905 25.732 2	8.610 1.012 3
P1999-060	S	SL03	A	15		69.06	9.42	30.84
P1999-061	S	SL03	B	15		63.3	9.16	33.15
P1999-062	S	SL03	C	15		39.41	6.73	26.05
		SL03			3	Mean SD n	57.257 15.722 3	8.437 1.484 3
P1999-063	S	SL09	A	15		66.16	9.42	28.95
P1999-064	S	SL09	B	15		61.53	8.87	31.55
		SL09			2	Mean SD n	63.845 3.274 2	9.145 0.389 2

Continued

**Table 7-28A.** Continued

SampleID	Species	BoxID	Individual	AgeInDays	Box	N	Weight (grams)	Bill (mm)	Tarsus (mm)
P1999-065	S	SL12	A	15			67.81	9.53	31.36
P1999-066	S	SL12	B	15			63.67	9.13	29.17
		SL12			2	Mean	65.740	9.330	30.265
						SD	2.927	0.283	1.549
						n	2	2	2
P1999-067	S	SL20	A	15			63.39	9.2	30.36
P1999-069	S	SL20	C	15			66.04	8.95	29.34
		SL20			2	Mean	64.715	9.075	29.850
						SD	1.874	0.177	0.721
						n	2	2	2
P1999-072	S	SN01	C	15			41.08	8.24	26
P1999-073	S	SN01	D	15			51.82	9.49	28.31
		SN01			2	Mean	46.450	8.865	27.155
						SD	7.594	0.884	1.633
						n	2	2	2
P1999-077	S	SN06	A	15			60.29	10.27	29.98
P1999-078	S	SN06	B	15			60.29	9.61	30
P1999-080	S	SN06	D	15			55.17	8.96	28.3
		SN06			3	Mean	58.583	9.613	29.427
						SD	2.956	0.655	0.976
						n	3	3	3
P1999-081	S	SN07	A	15	1		62.1	10.3	28.73
P1999-083	S	SN13	A	15			55.47	9.74	28.93
P1999-084	S	SN13	B	15			63.03	10.76	28.81
P1999-085	S	SN13	C	15			63.9	9.78	30.19
		SN13			3	Mean	60.800	10.093	29.310
						SD	4.636	0.578	0.764
						n	3	3	3
P1999-087	S	SN14	A	15			60.88	10.09	27.56
P1999-089	S	SN14	C	15			66.48	9.46	29.81
P1999-090	S	SN14	D	15			59.63	9.19	29.65
		SN14			3	Mean	62.330	9.580	29.007
						SD	3.648	0.462	1.255
						n	3	3	3

Continued

**Table 7-28A.** Continued

SampleID	Species	BoxID	Individual	AgeInDays	Box	Weight (grams)	Bill (mm)	Tarsus (mm)
					N			
P1999-095	S	SO05	A	15		66.09	11.65	27.92
P1999-096	S	SO05	B	15		68.66	10.17	28.39
P1999-097	S	SO05	C	15		68.62	12.01	27.41
		SO05			3	Mean SD n	67.790 1.472 3	11.277 0.975 3
P1999-101	S	SO12	A	15		47.41	9.51	26.78
P1999-102	S	SO12	B	15		46.47	10	28.98
P1999-104	S	SO12	D	15		46.23	8.86	30.13
		SO12			3	Mean SD n	46.703 0.624 3	9.457 0.572 3
P1999-105	S	SO13	A	15		77.76	10.33	34.08
P1999-106	S	SO13	B	15		81.96	11.46	30.02
P1999-107	S	SO13	C	15		78.32	10.48	30.91
		SO13			3	Mean SD n	79.347 2.280 3	10.757 0.614 3
P1999-108	S	SO14	A	15		70.17	10.76	33.52
P1999-109	S	SO14	B	15		65.23	9.52	30.22
P1999-110	S	SO14	C	15		69.41	9.76	28.29
		SO14			3	Mean SD n	68.270 2.660 3	10.013 0.658 3
P1999-112	S	SO18	A	15		71.76	10.12	32.17
P1999-113	S	SO18	B	15		76.57	10.07	28.63
P1999-115	S	SO18	D	15		79.57	9.82	33.83
		SO18			3	Mean SD n	75.967 3.940 3	10.003 0.161 3
P1999-121	S	SQ02	A	15		74.14	10.41	30.37
P1999-123	S	SQ02	C	15		66.19	9.62	30.87
P1999-124	S	SQ02	D	15		65.65	9.62	29.24
		SQ02			3	Mean SD n	68.660 4.753 3	9.883 0.456 3

Continued

**Table 7-28A.** Continued

SampleID	Species	BoxID	Individual	AgeInDays	Box	N	Weight (grams)	Bill (mm)	Tarsus (mm)
P1999-131	S	SQ08	A	15			61.52	9.59	29.55
P1999-132	S	SQ08	B	15			38.76	7.98	28.18
P1999-133	S	SQ08	C	15			53.98	9.23	29.12
		SQ08			3	Mean	51.420	8.933	28.950
						SD	11.594	0.845	0.701
					n	3	3	3	3
P1999-138	S	SQ12	A	15	1		69.25	9.61	29.26
P1999-135	S	SQ17	A	15			66.22	10.17	29.19
P1999-136	S	SQ17	B	15			63.82	9.88	29.96
		SQ17			2	Mean	65.020	10.025	29.575
						SD	1.697	0.205	0.544
					n	2	2	2	2

Mountain Bluebird

P1999-003	BK	K#08	C	18	1		26.45	5.47	21.12
P1999-005	BK	K#18	B	17	1		27.02	7.54	24.51
P1999-037	BS	SF09	A	18	1		26.52	5.95	20.5
P1999-041	BS	SH12	A	18	1		28.82	7.11	23.93

Chickadee

P1999-014	CB	B#44	C	15			11.46	5.35	17.75
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Tree Swallow

P1999-007	TB	B#29	A	15			20.79	5.08	13.65
P1999-011	TB	B#29	E	15			22.36	5.57	13.52
					2	Mean	21.575	5.325	13.585
						SD	1.110	0.346	0.092
					n	2	2	2	2

Continued

**Table 7-28A.** Continued

SampleID	Species	BoxID	Individual	AgeInDays	Box	N	Weight (grams)	Bill (mm)	Tarsus (mm)
P1999-023	TK	K#47	B	15			20.71	4.93	12.94
P1999-024	TK	K#47	C	15			20.82	5.01	12.17
					2	Mean	20.765	4.970	12.555
						SD	0.078	0.057	0.544
						n	2	2	2
P1999-033	TS	SB12	A	15			21.23	4.73	13.65
P1999-034	TS	SB12	B	15			19.34	4.63	12.32
P1999-035	TS	SB12	C	15			20.14	4.4	13.61
P1999-036	TS	SB12	D	15			20.67	5.15	13.56
		SB12			4	Mean	20.345	4.728	13.285
						SD	0.804	0.314	0.644
						n	4	4	4
P1999-044	TS	SJ10	A	15			21.98	4.65	13.03
P1999-045	TS	SJ10	B	15			19.87	4.76	12.29
		SJ10			2	Mean	20.925	4.705	12.660
						SD	1.492	0.078	0.523
						n	2	2	2
P1999-116	TS	SP11	A	15			21.98	4.79	14.87
P1999-117	TS	SP11	B	15			20.64	4.7	13.72
		SP11			2	Mean	21.310	4.745	14.295
						SD	0.948	0.064	0.813
						n	2	2	2
P1999-126	TS	SQ03	B	15			22.88	4.89	13.55
P1999-128	TS	SQ03	D	15			20.2	4.73	13.16
		SQ03			2	Mean	21.540	4.810	13.355
						SD	1.895	0.113	0.276
						n	2	2	2

**Table 7-29A.** Body weight and morphological measurement from passerines from sites on the Anaconda Smelter Site, 2000. N is the total number of chicks measured while n is the number positive for the endpoint.

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsus (mm)
<u>European Starling</u>										
P2000-019	Chick	S	K	SK01	P1	5		29.5	5.42	19.34
P2000-040	Chick	S	K	SK01	Gl	5		22.5	5.21	16.53
				SK01		5	2	Mean SD n	26.00 4.95 2	5.32 0.15 2
									17.94	1.99
P2000-019	Chick	S	K	SK01	P1	9		47.5	7.13	28.69
P2000-040	Chick	S	K	SK01	Gl	9		35	6.9	24.88
				SK01		9	2	Mean SD n	41.25 8.84 2	7.02 0.16 2
									26.79	2.69
P2000-019	Chick	S	K	SK01	P1	11		58	7.9	28.79
P2000-040	Chick	S	K	SK01	Gl	11		48	6.96	26.11
				SK01		11	2	Mean SD n	53.00 7.07 2	7.43 0.66 2
									27.45	1.90
P2000-019	Chick	S	K	SK01	P1	14		70	9.16	32.92
P2000-040	Chick	S	K	SK01	Gl	14		63	8.02	32.32
				SK01		14	2	Mean SD n	66.50 4.95 2	8.59 0.81 2
									32.62	0.42
P2000-022	Chick	S	K	SK12	Pr	6		17.5	5.49	19.58
P2000-034	Chick	S	K	SK12	Gr	6		28	6.02	20.62
P2000-010	Chick	S	K	SK12	Or	6		17	5.62	16.61
P2000-031	Chick	S	K	SK12	Yr	6		27	5.61	20.14
				SK12		6	4	Mean SD n	22.38 5.94 4	5.69 0.23 4
									19.24	1.80
P2000-022	Chick	S	K	SK12	Pr	8		29	6.6	22.96
P2000-034	Chick	S	K	SK12	Gr	8		36	6.56	24.32
P2000-010	Chick	S	K	SK12	Or	8		27	5.73	20.51
P2000-031	Chick	S	K	SK12	Yr	8		41	6.71	24
				SK12		8	4	Mean SD n	33.25 6.45 4	6.40 0.45 4
									22.95	1.73

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsus (mm)
P2000-022	Chick	S	K	SK12	Pr	11		39	7.62	29.7
P2000-034	Chick	S	K	SK12	Gr	11		52	8.26	32.72
P2000-010	Chick	S	K	SK12	Or	11		39	7.6	28.06
P2000-031	Chick	S	K	SK12	Yr	11		54	8.76	32.06
				SK12		11	4	Mean	46.00	8.06
								SD	8.12	0.56
							n		4	2.15
									4	4
P2000-022	Chick	S	K	SK12	Pr	14		48	9.08	30.46
P2000-034	Chick	S	K	SK12	Gr	14		56	10.12	32.96
P2000-010	Chick	S	K	SK12	Or	14		44	8.29	28.96
P2000-031	Chick	S	K	SK12	Yr	14		59	10.07	29.65
				SK12		14	4	Mean	51.75	9.39
								SD	6.95	0.88
							n		4	1.75
									4	4
P2000-011	Chick	S	L	SL06	Yr	5		21	5.41	17.98
P2000-012	Chick	S	L	SL06	Or	5		20.5	5.23	18.57
P2000-017	Chick	S	L	SL06	Gr	5		25	5.21	20.14
				SL06		5	3	Mean	22.17	5.28
								SD	2.47	0.11
							n		3	1.12
									3	3
P2000-011	Chick	S	L	SL06	Yr	8		32	5.78	21.65
P2000-012	Chick	S	L	SL06	Or	8		33	5.98	22.59
P2000-017	Chick	S	L	SL06	Gr	8		35	5.97	24.46
				SL06		8	3	Mean	33.33	5.91
								SD	1.53	0.11
							n		3	1.43
									3	3
P2000-011	Chick	S	L	SL06	Yr	10		10	47	7.02
P2000-012	Chick	S	L	SL06	Or	10		10	50	7.4
P2000-017	Chick	S	L	SL06	Gr	10		10	56	8
				SL06		10	3	Mean	51.00	7.47
								SD	4.58	0.49
							n		3	0.37
									3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsus (mm)
P2000-011	Chick	S	L	SL06	Yr	13	13	49	7.88	30.9
P2000-012	Chick	S	L	SL06	Or	13	13	56	8.24	31.36
P2000-017	Chick	S	L	SL06	Gr	13	13	59	8.4	32.64
				SL06		13	3	Mean	54.67	8.17
								SD	5.13	0.27
							n	3	3	0.90
P2000-001	Chick	S	L	SL11	Br	6	1	28	5.52	20.6
P2000-001	Chick	S	L	SL11	Br	9	1	44	6.66	25.67
P2000-001	Chick	S	L	SL11	Br	12	1	62	7.82	28.92
P2000-001	Chick	S	L	SL11	Br	14	1	72	8.84	32.7
P2000-032	Chick	S	N	SN01	Pr	5		36.5	6.16	24.34
P2000-046	Chick	S	N	SN01	Wl	5		20.5	4.88	18.56
P2000-047	Chick	S	N	SN01	Rr	5		34	6.14	23.38
P2000-048	Chick	S	N	SN01	Pl	5		32.5	6.28	23.72
P2000-049	Chick	S	N	SN01	Or	5		36.5	5.98	25.06
				SN01		5	5	Mean	32.00	5.89
								SD	6.65	0.57
							n	5	5	2.57
P2000-032	Chick	S	N	SN01	Pr	9		62	7.93	31.85
P2000-046	Chick	S	N	SN01	Wl	9		43.5	6.79	27.24
P2000-047	Chick	S	N	SN01	Rr	9		61	8	32.41
P2000-048	Chick	S	N	SN01	Pl	9		58	8.04	31.71
P2000-049	Chick	S	N	SN01	Or	9		62	8.29	32.41
				SN01		9	5	Mean	57.30	7.81
								SD	7.89	0.59
							n	5	5	2.19
P2000-032	Chick	S	N	SN01	Pr	11		70	7.84	30.56
P2000-046	Chick	S	N	SN01	Wl	11		54	8.29	29.02
P2000-047	Chick	S	N	SN01	Rr	11		68	8.96	29.25
P2000-048	Chick	S	N	SN01	Pl	11		68	8.61	27.74
P2000-049	Chick	S	N	SN01	Or	11		71	9.26	31.04
				SN01		11	5	Mean	66.20	8.59
								SD	6.94	0.56
							n	5	5	1.31

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)			Tarsus (mm)
								Mean	SD	n	
P2000-032	Chick	S	N	SN01	Pr	14		72	10.12	10.12	32.46
P2000-046	Chick	S	N	SN01	Wl	14		59	10.16	10.16	31.1
P2000-047	Chick	S	N	SN01	Rr	14		71	10.1	10.1	32.5
P2000-048	Chick	S	N	SN01	Pl	14		68	10.68	10.68	31.44
P2000-049	Chick	S	N	SN01	Or	14		72	10.88	10.88	32.29
				SN01		14	5	Mean	68.40	10.39	31.96
								SD	5.50	0.37	0.64
								n	5	5	5
P2000-025	Chick	S	N	SN03	Ol	6		34	5.63	5.63	22.06
P2000-037	Chick	S	N	SN03	Gl	6		31	5.82	5.82	22.32
P2000-059	Chick	S	N	SN03	Yl	6		42.5	6.33	6.33	24.06
				SN03		6	3	Mean	35.83	5.93	22.81
								SD	5.97	0.36	1.09
								n	3	3	3
P2000-025	Chick	S	N	SN03	Ol	8		42	7	7	26.35
P2000-037	Chick	S	N	SN03	Gl	8		43	7.22	7.22	25.08
P2000-059	Chick	S	N	SN03	Yl	8		47	7.36	7.36	28.38
				SN03		8	3	Mean	44.00	7.19	26.60
								SD	2.65	0.18	1.66
								n	3	3	3
P2000-025	Chick	S	N	SN03	Ol	11		57	7.78	7.78	32.06
P2000-037	Chick	S	N	SN03	Gl	11		57	8.02	8.02	32.82
P2000-059	Chick	S	N	SN03	Yl	11		65	8.54	8.54	33.5
				SN03		11	3	Mean	59.67	8.11	32.79
								SD	4.62	0.39	0.72
								n	3	3	3
P2000-025	Chick	S	N	SN03	Ol	14		70	9.02	9.02	31.16
P2000-037	Chick	S	N	SN03	Gl	14		70	9.65	9.65	31.52
P2000-059	Chick	S	N	SN03	Yl	14		75	9.44	9.44	31.96
				SN03		14		Mean	71.67	9.37	31.55
								SD	2.89	0.32	0.40
								n	3	3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight			Tarsus	
								Days	(grams)	(mm)		
P2000-024	Chick	S	N	SN04	Or	6			23	5.99	17	
P2000-036	Chick	S	N	SN04	Yr	6			24	5.38	16.18	
P2000-057	Chick	S	N	SN04	Gr	6			24	5.26	17.3	
				SN04		6	3	Mean	23.67	5.54	16.83	
								SD	0.58	0.39	0.58	
								n	3	3	3	
P2000-024	Chick	S	N	SN04	Or	9			40	6.62	23.06	
P2000-036	Chick	S	N	SN04	Yr	9			38	6.42	23.64	
P2000-057	Chick	S	N	SN04	Gr	9			37	6.78	23.7	
				SN04		9	3	Mean	38.33	6.61	23.47	
								SD	1.53	0.18	0.35	
								n	3	3	3	
P2000-024	Chick	S	N	SN04	Or	11			44	7.16	25.16	
P2000-036	Chick	S	N	SN04	Yr	11			35.5	7.19	26.39	
P2000-057	Chick	S	N	SN04	Gr	11			42.5	7.36	25.6	
				SN04		11	3	Mean	40.67	7.24	25.72	
								SD	4.54	0.11	0.62	
								n	3	3	3	
P2000-024	Chick	S	N	SN04	Or	13			13	51	7.52	29.06
P2000-036	Chick	S	N	SN04	Yr	13			13	43	7.08	29.22
P2000-057	Chick	S	N	SN04	Gr	13			13	48	7.7	29.12
				SN04		13	3	Mean	47.33	7.43	29.13	
								SD	4.04	0.32	0.08	
								n	3	3	3	
P2000-065	Chick	S	N	SN05	A	5				6.82	23.38	
P2000-066	Chick	S	N	SN05	B	5			42	6.38	20.82	
P2000-067	Chick	S	N	SN05	C	5			33.5	6.38	18.78	
P2000-068	Chick	S	N	SN05	D	5	4		43	6.22	22.6	
				SN05		5		Mean	39.50	6.45	21.40	
								SD	5.22	0.26	2.05	
								n	3	4	4	

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)			Tarsus (mm)
								Mean	SD	n	
P2000-065	Chick	S	N	SN05	A	8		64.5	8.88	31.32	
P2000-066	Chick	S	N	SN05	B	8		58.5	6.91	30.2	
P2000-067	Chick	S	N	SN05	C	8		52.5	7.88	27.8	
P2000-068	Chick	S	N	SN05	D	8		59.5	8.44	30.17	
				SN05		8	4	Mean	58.75	8.03	29.87
								SD	4.92	0.85	1.48
								n	4	4	4
P2000-065	Chick	S	N	SN05	A	10		10	68	9.52	32.84
P2000-066	Chick	S	N	SN05	B	10		10	65	8.82	31.45
P2000-067	Chick	S	N	SN05	C	10		10	55	8.93	30.53
P2000-068	Chick	S	N	SN05	D	10		10	61	9	31.14
				SN05		10	4	Mean	62.25	9.07	31.49
								SD	5.62	0.31	0.98
								n	4	4	4
P2000-065	Chick	S	N	SN05	A	13		13	78	11.42	34.02
P2000-066	Chick	S	N	SN05	B	13		13	69	10.72	33.08
P2000-067	Chick	S	N	SN05	C	13		13	66	10.36	33.86
P2000-068	Chick	S	N	SN05	D	13		13	68	10.98	33.34
				SN05		13	4	Mean	70.25	10.87	33.58
								SD	5.32	0.45	0.44
								n	4	4	4
P2000-062	Chick	S	N	SN06	A	6			45.5	6.88	25.49
P2000-063	Chick	S	N	SN06	B	6			44.5	7.02	27.3
P2000-064	Chick	S	N	SN06	C	6			43	7.13	27.27
				SN06		6	3	Mean	44.33	7.01	26.69
								SD	1.26	0.13	1.04
								n	3	3	3
P2000-062	Chick	S	N	SN06	A	9			54.5	7.56	29.74
P2000-063	Chick	S	N	SN06	B	9			44.5	8.06	30
P2000-064	Chick	S	N	SN06	C	9			50.5	8.54	32.05
				SN06		9	3	Mean	49.83	8.05	30.60
								SD	5.03	0.49	1.27
								n	3	3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)			Tarsus (mm)
								Mean	SD	n	
P2000-062	Chick	S	N	SN06	A	11		60	8.9	32.34	
P2000-063	Chick	S	N	SN06	B	11		39	8.96	31.04	
P2000-064	Chick	S	N	SN06	C	11		51	8.86	32.35	
				SN06		11	3	Mean	50.00	8.91	31.91
								SD	10.54	0.05	0.75
								n	3	3	3
P2000-062	Chick	S	N	SN06	A	14		74	10.04	34.08	
P2000-063	Chick	S	N	SN06	B	14		60	10.2	33.2	
P2000-064	Chick	S	N	SN06	C	14		67	10.8	33	
				SN06		14	3	Mean	67.00	10.35	33.43
								SD	7.00	0.40	0.57
								n	3	3	3
P2000-005	Chick	S	N	SN08	Or	6		21	5.23	17.71	
P2000-058	Chick	S	N	SN08	Pr	6		24	5.33	17.05	
				SN08		6	2	Mean	22.50	5.28	17.38
								SD	2.12	0.07	0.47
								n	2	2	2
P2000-005	Chick	S	N	SN08	Or	8		27	5.49	19.78	
P2000-058	Chick	S	N	SN08	Pr	8		28	5.16	19.75	
				SN08		8	2	Mean	27.50	5.33	19.77
								SD	0.71	0.23	0.02
								n	2	2	2
P2000-005	Chick	S	N	SN08	Or	14		36	6.39	25.49	
P2000-058	Chick	S	N	SN08	Pr	14		36	6.88	23.08	
				SN08		14	2	Mean	36.00	6.64	24.29
								SD	0.00	0.35	1.70
								n	2	2	2
P2000-004	Chick	S	N	SN09	Pr	6		41.5	6.03	25.41	
P2000-041	Chick	S	N	SN09	A	6		42.5	6.52	24.78	
P2000-042	Chick	S	N	SN09	B	6		42	6.58	24.44	
				SN09		6	3	Mean	42.00	6.38	24.88
								SD	0.50	0.30	0.49
								n	3	3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)			Tarsus (mm)
								Mean	SD	n	
P2000-004	Chick	S	N	SN09	Pr	9		57	7.7	7.7	29.33
P2000-041	Chick	S	N	SN09	A	9		56	7.85	7.85	28.83
P2000-042	Chick	S	N	SN09	B	9		60	7.43	7.43	29.67
				SN09		9	3	Mean	57.67	7.66	29.28
								SD	2.08	0.21	0.42
								n	3	3	3
P2000-004	Chick	S	N	SN09	Pr	12		71	8.7	8.7	32.43
P2000-041	Chick	S	N	SN09	A	12		71	9.65	9.65	31.55
P2000-042	Chick	S	N	SN09	B	12		73	9.18	9.18	31.34
				SN09		12	3	Mean	71.67	9.18	31.77
								SD	1.15	0.48	0.58
								n	3	3	3
P2000-004	Chick	S	N	SN09	Pr	14		71	9.82	9.82	30.01
P2000-041	Chick	S	N	SN09	A	14		73	10.86	10.86	28.88
P2000-042	Chick	S	N	SN09	B	14		73	10.14	10.14	30.31
				SN09		14	3	Mean	72.33	10.27	29.73
								SD	1.15	0.53	0.75
								n	3	3	3
P2000-016	Chick	S	N	SN10	Or	5		26	5.44	5.44	19.2
P2000-029	Chick	S	N	SN10	A	5		31.5	5.78	5.78	19.3
P2000-014	Chick	S	N	SN10	B	5		30	6.07	6.07	20.42
P2000-027	Chick	S	N	SN10	C	5		24.5	4.95	4.95	18.94
				SN10		5	4	Mean	28.00	5.56	19.47
								SD	3.29	0.48	0.65
								n	4	4	4
P2000-016	Chick	S	N	SN10	Or	8		43	6.74	6.74	23.81
P2000-029	Chick	S	N	SN10	A	8		49	6.88	6.88	24.4
P2000-014	Chick	S	N	SN10	B	8		46	7.26	7.26	25.76
P2000-027	Chick	S	N	SN10	C	8		42	7.22	7.22	24.07
				SN10		8	4	Mean	45.00	7.03	24.51
								SD	3.16	0.26	0.87
								n	4	4	4

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight			Tarsus
								Days	(grams)	(mm)	
P2000-016	Chick	S	N	SN10	Or	11		59	8.67	30.17	
P2000-029	Chick	S	N	SN10	A	11		68	8.76	30.87	
P2000-014	Chick	S	N	SN10	B	11		63	8.3	31.47	
P2000-027	Chick	S	N	SN10	C	11		57	8.4	30.66	
				SN10		11	4	Mean	61.75	8.53	30.79
								SD	4.86	0.22	0.54
								n	4	4	4
P2000-016	Chick	S	N	SN10	Or	14		51	9.43	28.29	
P2000-029	Chick	S	N	SN10	A	14		53	9.61	30.97	
P2000-014	Chick	S	N	SN10	B	14		49	9.09	29.71	
P2000-027	Chick	S	N	SN10	C	14		60	9.14	27.92	
				SN10		14	4	Mean	53.25	9.32	29.22
								SD	4.79	0.25	1.40
								n	4	4	4
P2000-028	Chick	S	N	SN13	Yl	5		33.5	6.12	20.29	
P2000-043	Chick	S	N	SN13	Or	5		21.5	5.4	19.33	
P2000-044	Chick	S	N	SN13	Pr	5		38.5	6.28	24.66	
P2000-045	Chick	S	N	SN13	Gr	5		28	5.54	20.48	
				SN13		5	4	Mean	30.38	5.84	21.19
								SD	7.31	0.43	2.37
								n	4	4	4
P2000-028	Chick	S	N	SN13	Yl	9		55	7.46	28.93	
P2000-043	Chick	S	N	SN13	Or	9		29	6.04	21.2	
P2000-044	Chick	S	N	SN13	Pr	9		62	7.47	30.11	
P2000-045	Chick	S	N	SN13	Gr	9		46	6.06	27.3	
				SN13		9	4	Mean	48.00	6.76	26.89
								SD	14.26	0.82	3.96
								n	4	4	4
P2000-028	Chick	S	N	SN13	Yl	11		64	8.31	27.2	
P2000-043	Chick	S	N	SN13	Or	11		40	6.89	24.73	
P2000-044	Chick	S	N	SN13	Pr	11		72	8.39	30.37	
P2000-045	Chick	S	N	SN13	Gr	11		55	7.59	27.66	
				SN13		11	4	Mean	57.75	7.80	27.49
								SD	13.72	0.70	2.31
								n	4	4	4

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)			Tarsus (mm)
								Mean	SD	n	
P2000-028	Chick	S	N	SN13	YI	14		68	9.52		30.08
P2000-043	Chick	S	N	SN13	Or	14		43	7.64		28.87
P2000-044	Chick	S	N	SN13	Pr	14		74	9.98		29.8
P2000-045	Chick	S	N	SN13	Gr	14		58	9.98		29.59
				SN13		14	4	Mean	60.75	9.28	29.59
								SD	13.55	1.11	0.52
								n	4	4	4
P2000-033	Chick	S	P	SP01	Gl	5		23	5.2		15.8
P2000-060	Chick	S	P	SP01	Ol	5		30	5.58		19.8
P2000-061	Chick	S	P	SP01	Pl	5		27	5.62		18.08
				SP01		5	3	Mean	26.67	5.47	17.89
								SD	3.51	0.23	2.01
								n	3	3	3
P2000-033	Chick	S	P	SP01	Gl	9		39	7		26.94
P2000-060	Chick	S	P	SP01	Ol	9		49	7.4		31.18
P2000-061	Chick	S	P	SP01	Pl	9		49	7.64		27.08
				SP01		9	3	Mean	45.67	7.35	28.40
								SD	5.77	0.32	2.41
								n	3	3	3
P2000-033	Chick	S	P	SP01	Gl	12		62	8.48		32.72
P2000-060	Chick	S	P	SP01	Ol	12		65	9		32.74
P2000-061	Chick	S	P	SP01	Pl	12		62	8.28		30.18
				SP01		12	3	Mean	63.00	8.59	31.88
								SD	1.73	0.37	1.47
								n	3	3	3
P2000-033	Chick	S	P	SP01	Gl	14		66	9.3		33.37
P2000-060	Chick	S	P	SP01	Ol	14		71	9.68		33.97
P2000-061	Chick	S	P	SP01	Pl	14		69	9.58		33.25
				SP01		14	3	Mean	68.67	9.52	33.53
								SD	2.52	0.20	0.39
								n	3	3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)			Bill (mm)		Tarsus (mm)	
								Mean	SD	n	Mean	SD	n	Mean
P2000-003	Chick	S	P	SP04	Pl	5		19	5.29	12.67				
P2000-026	Chick	S	P	SP04	Yl	5		19	4.3	11.66				
P2000-013	Chick	S	P	SP04	Gl	5		21	5.22	12.7				
				SP04		5	3	Mean	19.67	4.94	12.34			
								SD	1.15	0.55	0.59			
								n	3	3	3			
P2000-003	Chick	S	P	SP04	Pl	8		35.5	5.84	21.6				
P2000-026	Chick	S	P	SP04	Yl	8		38.5	5.71	20.94				
P2000-013	Chick	S	P	SP04	Gl	8		36.5	5.96	21.1				
				SP04		8	3	Mean	36.83	5.84	21.21			
								SD	1.53	0.13	0.34			
								n	3	3	3			
P2000-003	Chick	S	P	SP04	Pl	11		58	7.26	30.44				
P2000-026	Chick	S	P	SP04	Yl	11		40	7.06	27.08				
P2000-013	Chick	S	P	SP04	Gl	11		52	7.08	29.7				
				SP04		11	3	Mean	50.00	7.13	29.07			
								SD	9.17	0.11	1.77			
								n	3	3	3			
P2000-003	Chick	S	P	SP04	Pl	14		59	8.3	31.76				
P2000-026	Chick	S	P	SP04	Yl	14		44	7.58	27.88				
P2000-013	Chick	S	P	SP04	Gl	14		56	7.86	29.75				
				SP04		14	3	Mean	53.00	7.91	29.80			
								SD	7.94	0.36	1.94			
								n	3	3	3			
P2000-002	Chick	S	R	SR01	Pr	5		17.5	4.58	14.25				
P2000-023	Chick	S	R	SR01	Pl	5		24.5	4.94	18.27				
P2000-009	Chick	S	R	SR01	Ol	5		19	4.33	16.93				
P2000-008	Chick	S	R	SR01	Yl	5		26.5	5.96	20.54				
P2000-007	Chick	S	R	SR01	Gl	5		26.5	4.91	19.01				
				SR01		5	5	Mean	22.80	4.94	17.80			
								SD	4.27	0.62	2.37			
								n	5	5	5			

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight	Bill	Tarsus
						Days				
P2000-002	Chick	S	R	SR01	Pr	8		34.5	6.48	23.62
P2000-023	Chick	S	R	SR01	Pl	8		44	7.2	27.86
P2000-009	Chick	S	R	SR01	Ol	8		42.5	6.82	25.6
P2000-008	Chick	S	R	SR01	Yl	8		47.5	7.8	27.66
P2000-007	Chick	S	R	SR01	Gl	8		47	7.08	28.56
				SR01		8	5	Mean	7.08	26.66
								SD	0.49	2.03
							n	5	5	5
P2000-002	Chick	S	R	SR01	Pr	11		53	7.8	31.58
P2000-023	Chick	S	R	SR01	Pl	11		62	8.3	31.06
P2000-009	Chick	S	R	SR01	Ol	11		62	8.31	30.14
P2000-008	Chick	S	R	SR01	Yl	11		64	8.2	30.84
P2000-007	Chick	S	R	SR01	Gl	11		64	8.28	32.85
				SR01		11	5	Mean	8.18	31.29
								SD	0.22	1.01
							n	5	5	5
P2000-002	Chick	S	R	SR01	Pr	14		63	9.02	33.88
P2000-023	Chick	S	R	SR01	Pl	14		65	9.5	32.82
P2000-009	Chick	S	R	SR01	Ol	14		69	9.28	33.9
P2000-008	Chick	S	R	SR01	Yl	14		74	9.54	33.22
P2000-007	Chick	S	R	SR01	Gl	14		67	9	33.92
				SR01		14	5	Mean	9.27	33.55
								SD	0.26	0.50
							n	5	5	5
P2000-021	Chick	S	R	SR02	Ol	5		20.5	5.22	18.26
P2000-038	Chick	S	R	SR02	Pl	5		31	6.34	22.96
P2000-039	Chick	S	R	SR02	Gl	5		31	6.24	22.84
				SR01		5	3	Mean	5.93	21.35
								SD	0.62	2.68
							n	3	3	3
P2000-021	Chick	S	R	SR02	Ol	7		35	5.63	23.26
P2000-038	Chick	S	R	SR02	Pl	7		46.5	6.87	26.67
P2000-039	Chick	S	R	SR02	Gl	7		48	7.02	27.05
				SR02		7	3	Mean	6.51	25.66
								SD	0.76	2.09
							n	3	3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)			Tarsus (mm)
								Mean	SD	n	
P2000-021	Chick	S	R	SR02	Ol	11		50	7.5	7.5	28.56
P2000-038	Chick	S	R	SR02	Pl	11		55	8.5	8.5	32.08
P2000-039	Chick	S	R	SR02	Gl	11		59	8.38	8.38	31.74
				SR02		11	3	Mean	54.67	8.13	30.79
								SD	4.51	0.55	1.94
								n	3	3	3
P2000-021	Chick	S	R	SR02	Ol	14			8.48	8.48	32.21
P2000-038	Chick	S	R	SR02	Pl	14			8.5	8.5	31.96
P2000-039	Chick	S	R	SR02	Gl	14			9.68	9.68	31.28
				SR02		14	3	Mean	-	8.89	31.82
								SD	-	0.69	0.48
								n	-	3	3
P2000-018	Chick	S	R	SR04	Yr	5		28	5.28	5.28	17.78
P2000-055	Chick	S	R	SR04	Gr	5		25	5.52	5.52	17.74
P2000-056	Chick	S	R	SR04	Pr	5		28	5.58	5.58	18.66
				SR04		5	3	Mean	27.00	5.46	18.06
								SD	1.73	0.16	0.52
								n	3	3	3
P2000-018	Chick	S	R	SR04	Yr	8		34	6.2	6.2	23.52
P2000-055	Chick	S	R	SR04	Gr	8		32	6	6	23.82
P2000-056	Chick	S	R	SR04	Pr	8		30	6.3	6.3	22.48
				SR04		8	3	Mean	32.00	6.17	23.27
								SD	2.00	0.15	0.70
								n	3	3	3
P2000-018	Chick	S	R	SR04	Yr	12		56	8.46	8.46	30.62
P2000-055	Chick	S	R	SR04	Gr	12		50	8.02	8.02	30.22
P2000-056	Chick	S	R	SR04	Pr	12		40	7.62	7.62	30.82
				SR04		12	3	Mean	48.67	8.03	30.55
								SD	8.08	0.42	0.31
								n	3	3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight			
								(grams)	Bill (mm)	Tarsus (mm)	
P2000-018	Chick	S	R	SR04	Yr	14		67	8.8	31.98	
P2000-055	Chick	S	R	SR04	Gr	14		64	8.42	31.26	
P2000-056	Chick	S	R	SR04	Pr	14		61	7.9	29.74	
				SR04		14	3	Mean	64.00	8.37	30.99
								SD	3.00	0.45	1.14
								n	3	3	3
P2000-030	Chick	S	R	SR05	Gr	5		27	5.22	20.62	
P2000-084	Chick	S	R	SR05	Ol	5		31.5	5.2	20.9	
				SR05		5	2	Mean	29.25	5.21	20.76
								SD	3.18	0.01	0.20
								n	2	2	2
P2000-030	Chick	S	R	SR05	Gr	7		7	12.5		
P2000-084	Chick	S	R	SR05	Ol	7		7	29.5	5.8	19.38
				SR05		7	2	Mean	21.00	5.80	19.38
								SD	12.02	-	-
								n	2	1	1
P2000-030	Chick	S	R	SR05	Gr	8		53	7.35	28.14	
P2000-084	Chick	S	R	SR05	Ol	8		57	7.28	29.78	
				SR05		8	2	Mean	55.00	7.32	28.96
								SD	2.83	0.05	1.16
								n	2	2	2
P2000-030	Chick	S	R	SR05	Gr	11		68	8.76	28.64	
P2000-084	Chick	S	R	SR05	Ol	11		72	8.35	30.54	
				SR05		11	2	Mean	70.00	8.56	29.59
								SD	2.83	0.29	1.34
								n	2	2	2
P2000-030	Chick	S	R	SR05	Gr	14		73	9.64	31.73	
P2000-084	Chick	S	R	SR05	Ol	14		73	8.84	32.48	
				SR05		14	2	Mean	73.00	9.24	32.11
								SD	0.00	0.57	0.53
								n	2	2	2

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days				
P2000-020	Chick	S	R	SR13	Gl	6		39	6.39	20.79
P2000-050	Chick	S	R	SR13	A	6		43.5	6.48	22.06
P2000-051	Chick	S	R	SR13	B	6		44.5	6.56	23.72
P2000-052	Chick	S	R	SR13	C	6		43	6.35	24.72
				SR13		6	4	Mean	42.50	6.45
								SD	2.42	0.09
								n	4	1.74
									4	4
P2000-020	Chick	S	R	SR13	Gl	9		56	8.06	31.54
P2000-050	Chick	S	R	SR13	A	9		56	7.68	30.92
P2000-051	Chick	S	R	SR13	B	9		60	7.62	29.38
P2000-052	Chick	S	R	SR13	C	9		58	7.7	30.14
				SR13		9	4	Mean	57.50	7.77
								SD	1.91	0.20
								n	4	0.94
									4	4
P2000-020	Chick	S	R	SR13	Gl	12		66	9.02	31.14
P2000-050	Chick	S	R	SR13	A	12		65	9.48	32.02
P2000-051	Chick	S	R	SR13	B	12		71	9.57	31.38
P2000-052	Chick	S	R	SR13	C	12		69	9.59	32.22
				SR13		12	4	Mean	67.75	9.42
								SD	2.75	0.27
								n	4	0.51
									4	4
P2000-020	Chick	S	R	SR13	Gl	14		65	10.06	31.18
P2000-050	Chick	S	R	SR13	A	14		70	9.74	30.62
P2000-051	Chick	S	R	SR13	B	14		65	10.52	30.89
P2000-052	Chick	S	R	SR13	C	14		68	9.82	30.23
				SR13		14	4	Mean	67.00	10.04
								SD	2.45	0.35
								n	4	0.40
									4	4
P2000-035	Chick	S	R	SR14	YI	5		19	4.08	15.28
P2000-053	Chick	S	R	SR14	PI	5		15	4.67	14.06
P2000-054	Chick	S	R	SR14	Gl	5		22	5.16	17.63
				SR14		5	3	Mean	18.67	4.64
								SD	3.51	0.54
								n	3	1.81
									3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight	Bill	Tarsus
						Days				
P2000-035	Chick	S	R	SR14	YI	8		27	5.27	20.03
P2000-053	Chick	S	R	SR14	PI	8		22	6.02	12.02
P2000-054	Chick	S	R	SR14	GI	8		28	6.4	21.86
				SR14		8	3	Mean	25.67	5.90
								SD	3.21	0.58
							n		3	5.23
									3	3
P2000-035	Chick	S	R	SR14	YI	11		41.5	6.98	25.18
P2000-053	Chick	S	R	SR14	PI	11		33	7.52	23
P2000-054	Chick	S	R	SR14	GI	11		44.5	7.64	28.02
				SR14		11	3	Mean	39.67	7.38
								SD	5.97	0.35
							n		3	2.52
									3	3
P2000-035	Chick	S	R	SR14	YI	12		46	7.78	26
P2000-053	Chick	S	R	SR14	PI	12		34	7.35	23.64
P2000-054	Chick	S	R	SR14	GI	12		48	7.41	27
				SR14		12	3	Mean	42.67	7.51
								SD	7.57	0.23
							n		3	1.73
									3	3
P2000-035	Chick	S	R	SR14	YI	14		53	7.7	29.6
P2000-053	Chick	S	R	SR14	PI	14		37	7.6	28.08
P2000-054	Chick	S	R	SR14	GI	14		54	8.44	29.92
				SR14		14	3	Mean	48.00	7.91
								SD	9.54	0.46
							n		3	0.98
									3	3
P2000-015	Chick	S	R	SR16	Rr	5		25	5.89	19.44
P2000-085	Chick	S	R	SR16	Gr	5		32.5	5.94	21.18
P2000-086	Chick	S	R	SR16	Br	5		30.5	5.9	20.26
P2000-087	Chick	S	R	SR16	Pr	5		26.5	5.63	19.76
P2000-088	Chick	S	R	SR16	Or	5		24	5.16	18.23
				SR16		5	5	Mean	27.70	5.70
								SD	3.65	0.33
							n		5	1.08
									5	5

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days				
P2000-015	Chick	S	R	SR16	Rr	8		49.5	7.02	26.5
P2000-085	Chick	S	R	SR16	Gr	8		55.5	7.14	30.02
P2000-086	Chick	S	R	SR16	Br	8		46.5	7.34	27.1
P2000-087	Chick	S	R	SR16	Pr	8		48.5	7	25.04
P2000-088	Chick	S	R	SR16	Or	8		46.5	6.48	26.24
				SR16		8	5	Mean SD n	7.00 0.32 5	26.98 1.86 5
P2000-015	Chick	S	R	SR16	Rr	11		58	8	31.25
P2000-085	Chick	S	R	SR16	Gr	11		66	8.6	32.49
P2000-086	Chick	S	R	SR16	Br	11		50	8.1	30.6
P2000-087	Chick	S	R	SR16	Pr	11		57	8.3	30.78
P2000-088	Chick	S	R	SR16	Or	11		57	7.8	31.18
				SR16		11	5	Mean SD n	8.16 0.30 5	31.26 0.74 5
P2000-015	Chick	S	R	SR16	Rr	14		70	9.1	30.81
P2000-085	Chick	S	R	SR16	Gr	14		76	9.72	32.66
P2000-086	Chick	S	R	SR16	Br	14		59	8.58	29.97
P2000-087	Chick	S	R	SR16	Pr	14		69	9.23	31.72
P2000-088	Chick	S	R	SR16	Or	14		68	8.4	30.28
				SR16		14	5	Mean SD n	9.01 0.53 5	31.09 1.10 5
P2000-006	Chick	S	R	SR19	Yl	5		23	5.04	18.48
P2000-069	Chick	S	R	SR19	Pr	5		27.5	5.46	18.82
P2000-070	Chick	S	R	SR19	Or	5		14.5	4.48	14.08
P2000-071	Chick	S	R	SR19	Gr	5		23.5	5.12	18.88
P2000-072	Chick	S	R	SR19	Pl	5		29.5	5.16	21.03
P2000-073	Chick	S	R	SR19	Bl	5		28	5.66	19.45
				SR19		5	6	Mean SD n	5.15 0.40 6	18.46 2.33 6

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days				
P2000-006	Chick	S	R	SR19	Yl	8		41	6.74	26.49
P2000-069	Chick	S	R	SR19	Pr	8		45	6.98	26.29
P2000-070	Chick	S	R	SR19	Or	8		27	6.08	21.49
P2000-071	Chick	S	R	SR19	Gr	8		40	6.63	25.21
P2000-072	Chick	S	R	SR19	Pl	8			7.22	
P2000-073	Chick	S	R	SR19	Bl	8		40	6.97	25.46
				SR19		8	5	Mean	38.60	6.77
								SD	6.80	0.40
								n	5	2.03
									6	5
P2000-006	Chick	S	R	SR19	Yl	11		60	7.58	30.15
P2000-069	Chick	S	R	SR19	Pr	11		64	7.68	30.32
P2000-070	Chick	S	R	SR19	Or	11		51	7.08	26
P2000-071	Chick	S	R	SR19	Gr	11		59	8	29.37
P2000-072	Chick	S	R	SR19	Pl	11		68	8.55	32.04
P2000-073	Chick	S	R	SR19	Bl	11		63	8.08	30.2
				SR19		11	6	Mean	60.83	7.83
								SD	5.78	0.50
								n	6	2.01
									6	6
P2000-006	Chick	S	R	SR19	Yl	14		67	9.32	33.44
P2000-069	Chick	S	R	SR19	Pr	14		70	10.2	32.32
P2000-070	Chick	S	R	SR19	Or	14		62	9.2	30.9
P2000-071	Chick	S	R	SR19	Gr	14		64	9.34	33.62
P2000-072	Chick	S	R	SR19	Pl	14		77	9.92	33.82
P2000-073	Chick	S	R	SR19	Bl	14		73	9.88	33.04
				SR19		14	6	Mean	68.83	9.64
								SD	5.64	0.41
								n	6	1.10
									6	6

Mountain Bluebird

P2000-125	Chick	B	B#23	B#23	Rr2	5		13.50	3.85	15.97
P2000-235	Chick	B	B#23	B#23	Pr2	5		16.00	4.12	17.77
P2000-236	Chick	B	B#23	B#23	Or2	5		16.50	4.18	17.33
P2000-237	Chick	B	B#23	B#23	Yr2	5		15.50	4.09	16.27
P2000-238	Chick	B	B#23	B#23	Gr2	5		12.50	3.76	15.14
P2000-239	Chick	B	B#23	B#23	Br2	5		15.50	4.21	16.08
				B#23		5	6	Mean	14.92	4.04
								SD	1.56	0.19
								n	6	0.96
									6	6

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight	Bill	Tarsus
						Days				
P2000-240	Chick	B	B#23	B#23	O11	5		14.00	3.99	12.57
P2000-241	Chick	B	B#23	B#23	G11	5		13.00	3.86	14.08
P2000-242	Chick	B	B#23	B#23	Bl1	5		14.50	4.26	14.81
P2000-243	Chick	B	B#23	B#23	Pl1	5		12.50	3.50	13.54
P2000-244	Chick	B	B#23	B#23	Y11	5		12.50	3.80	11.84
P2000-245	Chick	B	B#23	B#23	R11	5		15.00	3.92	15.20
					B#23		5	Mean	13.58	3.89
							6	SD	1.07	0.25
							n	n	6	1.29
									6	6
P2000-240	Chick	B	B#23	B#23	O11	8		26.00	5.10	20.57
P2000-241	Chick	B	B#23	B#23	G11	8		23.50	4.60	20.88
P2000-242	Chick	B	B#23	B#23	Bl1	8		25.00	5.00	21.84
P2000-243	Chick	B	B#23	B#23	Pl1	8		23.50	4.90	18.58
P2000-244	Chick	B	B#23	B#23	Y11	8		22.50	4.54	20.64
P2000-245	Chick	B	B#23	B#23	R11	8		23.50	4.57	20.84
					B#23		8	Mean	24.00	4.79
							6	SD	1.26	0.24
							n	n	6	1.07
									6	6
P2000-125	Chick	B	B#23	B#23	Rr2	9		24.50	4.73	23.47
P2000-235	Chick	B	B#23	B#23	Pr2	9		28.00	5.88	24.05
P2000-236	Chick	B	B#23	B#23	Or2	9		26.00	5.34	25.26
P2000-237	Chick	B	B#23	B#23	Yr2	9		25.00	5.75	22.39
P2000-238	Chick	B	B#23	B#23	Gr2	9		23.00	5.46	23.77
P2000-239	Chick	B	B#23	B#23	Br2	9		25.00	5.66	23.67
					B#23		9	Mean	25.25	5.47
							6	SD	1.67	0.41
							n	n	6	0.93
									6	6
P2000-125	Chick	B	B#23	B#23	Rr2	11		28.00	5.39	25.54
P2000-235	Chick	B	B#23	B#23	Pr2	11		29.00	6.38	24.58
P2000-236	Chick	B	B#23	B#23	Or2	11		28.50	5.70	26.09
P2000-237	Chick	B	B#23	B#23	Yr2	11		27.50	6.28	24.83
P2000-238	Chick	B	B#23	B#23	Gr2	11		28.00	5.43	25.48
P2000-239	Chick	B	B#23	B#23	Br2	11		27.00	5.99	24.96
					B#23		11	Mean	28.00	5.86
							6	SD	0.71	0.42
							n	n	6	0.56
									6	6

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight	Bill	Tarsus	
						Days					
P2000-240	Chick	B	B#23	B#23	O11	11		34.00	6.02	24.59	
P2000-241	Chick	B	B#23	B#23	G11	11		31.00	5.61	25.53	
P2000-242	Chick	B	B#23	B#23	Bl1	11		30.50	5.97	24.74	
P2000-243	Chick	B	B#23	B#23	Pl1	11		28.50	5.78	22.89	
P2000-244	Chick	B	B#23	B#23	Y11	11		31.00	5.74	23.02	
P2000-245	Chick	B	B#23	B#23	R11	11		30.00	5.78	23.93	
				B#23		11	6	Mean	30.83	5.82	24.12
								SD	1.81	0.15	1.03
							n	n	6	6	6
P2000-125	Chick	B	B#23	B#23	Rr2	14		30.00	6.14	26.37	
P2000-235	Chick	B	B#23	B#23	Pr2	14		29.50	6.89	23.93	
P2000-236	Chick	B	B#23	B#23	Or2	14		30.50	6.49	25.54	
P2000-237	Chick	B	B#23	B#23	Yr2	14		29.50	6.83	23.62	
P2000-238	Chick	B	B#23	B#23	Gr2	14		28.50	6.58	27.11	
P2000-239	Chick	B	B#23	B#23	Br2	14		27.50	6.77	24.50	
				B#23		14	6	Mean	29.25	6.62	25.18
								SD	1.08	0.28	1.39
							n	n	6	6	6
P2000-113	Chick	BK	K#21	K#21	Y1	5		17.00	4.80	16.64	
P2000-255	Chick	BK	K#21	K#21	Pl	5		15.00	4.18	15.79	
P2000-256	Chick	BK	K#21	K#21	Bl	5		7.50	3.40	10.90	
P2000-257	Chick	BK	K#21	K#21	Gl	5		18.00	4.44	16.76	
P2000-258	Chick	BK	K#21	K#21	Ol	5		17.00	4.02	16.75	
P2000-259	Chick	BK	K#21	K#21	Rl	5		14.50	4.04	15.88	
				K#21		5	6	Mean	14.83	4.15	15.45
								SD	3.83	0.47	2.27
							n	n	6	6	6
P2000-113	Chick	BK	K#21	K#21	Y1	10		31.50	6.18	25.62	
P2000-255	Chick	BK	K#21	K#21	Pl	10		27.00	6.37	25.01	
P2000-256	Chick	BK	K#21	K#21	Bl	10		22.00	5.09	22.96	
P2000-257	Chick	BK	K#21	K#21	Gl	10		30.00	6.19	25.65	
P2000-258	Chick	BK	K#21	K#21	Ol	10		30.00	6.14	25.70	
P2000-259	Chick	BK	K#21	K#21	Rl	10		26.00	6.09	25.59	
				K#21		10	6	Mean	27.75	6.01	25.09
								SD	3.49	0.46	1.07
							n	n	6	6	6

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight	Bill	Tarsus	
						Days					
P2000-113	Chick	BK	K#21	K#21	Y1	15		29.50	7.24	26.10	
P2000-255	Chick	BK	K#21	K#21	P1	15		28.50	6.99	27.34	
P2000-256	Chick	BK	K#21	K#21	Bl	15		26.00	6.57	25.95	
P2000-257	Chick	BK	K#21	K#21	Gl	15		30.00	7.52	27.07	
P2000-258	Chick	BK	K#21	K#21	Ol	15		29.50	7.40	27.00	
P2000-259	Chick	BK	K#21	K#21	R1	15		25.00	7.21	27.37	
				K#21		15	6	Mean	28.08	7.16	26.81
								SD	2.08	0.34	0.62
							n	n	6	6	6
P2000-114	Chick	BS	B	SB07	Yr2	5		12.50	3.77	14.31	
P2000-137	Chick	BS	B	SB07	Gr2	5		12.00	3.68	14.36	
P2000-138	Chick	BS	B	SB07	Or2	5		12.50	3.93	13.68	
P2000-139	Chick	BS	B	SB07	Pr2	5		12.50	3.94	13.60	
				SB07		5	4	Mean	12.38	3.83	13.99
								SD	0.25	0.13	0.40
							n	n	4	4	4
P2000-094	Chick	BS	B	SB07	Or1	6		19.00	4.16	17.69	
P2000-135	Chick	BS	B	SB07	Pr1	6		19.50	4.44	16.79	
P2000-136	Chick	BS	B	SB07	Gr1	6		17.00	4.26	17.01	
				SB07		6		Mean	18.50	4.29	17.16
								SD	1.32	0.14	0.47
							n	n	3	3	3
P2000-094	Chick	BS	B	SB07	Or1	8		21.00	4.85	19.45	
P2000-135	Chick	BS	B	SB07	Pr1	8		23.50	5.02	20.37	
P2000-136	Chick	BS	B	SB07	Gr1	8		21.50	4.75	19.75	
				SB07		8	3	Mean	22.00	4.87	19.86
								SD	1.32	0.14	0.47
							n	n	3	3	3
P2000-094	Chick	BS	B	SB07	Or1	11		29.00	5.92	21.80	
P2000-135	Chick	BS	B	SB07	Pr1	11		29.00	5.78	21.78	
P2000-136	Chick	BS	B	SB07	Gr1	11		25.00	5.86	21.80	
				SB07		11	3	Mean	27.67	5.85	21.79
								SD	2.31	0.07	0.01
							n	n	3	3	3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsus (mm)
P2000-114	Chick	BS	B	SB07	Yr2	11		26.00	5.90	23.57
P2000-137	Chick	BS	B	SB07	Gr2	11		24.00	5.84	24.16
P2000-138	Chick	BS	B	SB07	Or2	11		25.00	6.25	24.26
P2000-139	Chick	BS	B	SB07	Pr2	11		25.00	5.62	24.52
				SB07		11	4	Mean SD n	5.90 0.26 4	24.13 0.40 4
P2000-094	Chick	BS	B	SB07	Or1	13		29.50	6.43	23.15
P2000-135	Chick	BS	B	SB07	Pr1	13		30.50	6.37	21.51
P2000-136	Chick	BS	B	SB07	Gr1	13		28.50	6.21	22.07
				SB07		13	3	Mean SD n	6.34 0.11 3	22.24 0.83 3
P2000-114	Chick	BS	B	SB07	Yr2	14		28.00	6.40	23.78
P2000-137	Chick	BS	B	SB07	Gr2	14		28.00	6.25	25.00
P2000-138	Chick	BS	B	SB07	Or2	14		28.00	7.20	25.14
P2000-139	Chick	BS	B	SB07	Pr2	14		29.50	6.37	25.58
				SB07		14	4	Mean SD n	6.56 0.43 4	24.88 0.77 4
P2000-096	Chick	BS	C	SC02	Pr1	8		15.00	3.38	14.88
P2000-140	Chick	BS	C	SC02	Yr1	8		14.50	3.62	13.92
P2000-141	Chick	BS	C	SC02	Gr1	8		16.00	3.55	14.98
				SC02		8	3	Mean SD n	3.52 0.12 3	14.59 0.59 3
P2000-096	Chick	BS	C	SC02	Pr1	10		21.50	4.03	18.70
P2000-140	Chick	BS	C	SC02	Yr1	10		22.50	4.07	18.69
P2000-141	Chick	BS	C	SC02	Gr1	10		23.50	4.29	18.60
				SC02		10	3	Mean SD n	4.13 0.14 3	18.66 0.06 3

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight		
								(grams)	Bill (mm)	Tarsus (mm)
P2000-096	Chick	BS	C	SC02	Pr1	14		26.00	4.79	22.19
P2000-140	Chick	BS	C	SC02	Yr1	14		25.00	4.95	22.00
P2000-141	Chick	BS	C	SC02	Gr1	14		26.00	4.90	21.44
				SC02		14	3	Mean	25.67	4.88
								SD	0.58	0.08
							n		3	0.39
									3	3
P2000-124	Chick	BS	C	SC10	Ol2	5		11.50	3.92	14.98
P2000-142	Chick	BS	C	SC10	Yl2	5		12.00	3.48	14.59
P2000-143	Chick	BS	C	SC10	Pl2	5		12.50	3.70	14.52
				SC10		5	3	Mean	12.00	3.70
								SD	0.50	0.22
							n		3	0.25
									3	3
P2000-124	Chick	BS	C	SC10	Ol2	9		20.50	5.27	20.53
P2000-142	Chick	BS	C	SC10	Yl2	9		23.00	4.49	22.05
P2000-143	Chick	BS	C	SC10	Pl2	9		20.00	4.26	21.49
				SC10		9	3	Mean	21.17	4.67
								SD	1.61	0.53
							n		3	0.77
									3	3
P2000-124	Chick	BS	C	SC10	Ol2	11		23.50	5.54	22.42
P2000-142	Chick	BS	C	SC10	Yl2	11		22.00	5.18	22.44
P2000-143	Chick	BS	C	SC10	Pl2	11		24.50	5.23	23.67
				SC10		11	3	Mean	23.33	5.32
								SD	1.26	0.20
							n		3	0.72
									3	3
P2000-124	Chick	BS	C	SC10	Ol2	14		23.50	6.43	24.25
P2000-142	Chick	BS	C	SC10	Yl2	14		25.00	6.09	24.04
P2000-143	Chick	BS	C	SC10	Pl2	14		28.00	6.12	24.32
				SC10		14	3	Mean	25.50	6.21
								SD	2.29	0.19
							n		3	0.15
									3	3
P2000-122	Chick	BS	F	SF03	Br2	5		16.00	3.94	16.94
P2000-144	Chick	BS	F	SF03	Yl2	5		12.00	3.10	13.46
				SF03		5	2	Mean	14.00	3.52
								SD	2.83	0.59
							n		2	2.46
									2	2

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight	Bill	Tarsus
						Days				
P2000-122	Chick	BS	F	SF03	Br2	8		22.00	4.14	21.34
P2000-144	Chick	BS	F	SF03	Yl2	8		21.00	4.68	21.60
				SF03		8	2	Mean SD n	4.41 0.38 2	21.47 0.18 2
P2000-122	Chick	BS	F	SF03	Br2	11		28.50	4.90	23.49
P2000-144	Chick	BS	F	SF03	Yl2	11		27.50	5.35	23.53
				SF03		11	2	Mean SD n	5.13 0.32 2	23.51 0.03 2
P2000-122	Chick	BS	F	SF03	Br2	14		31.0	5.76	25.84
P2000-144	Chick	BS	F	SF03	Yl2	14		28.0	6.11	25.26
				SF03		14	2	Mean SD n	5.94 0.25 2	25.55 0.41 2
P2000-105	Chick	BS	G	SG01	Pl	5		13.00	3.52	15.68
P2000-145	Chick	BS	G	SG01	Gl	5		14.50	3.50	15.90
				SG01		5	2	Mean SD n	3.51 0.01 2	15.79 0.16 2
P2000-105	Chick	BS	G	SG01	Pl	8		25.50	4.82	19.91
P2000-145	Chick	BS	G	SG01	Gl	8		25.50	4.71	21.00
				SG01		8	2	Mean SD n	4.77 0.08 2	20.46 0.77 2
P2000-105	Chick	BS	G	SG01	Pl	13		31.00	5.87	26.10
P2000-145	Chick	BS	G	SG01	Gl	13		31.00	5.59	25.17
				SG01		13	2	Mean SD n	5.73 0.20 2	25.64 0.66 2

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight	Bill	Tarsus	
						Days					
P2000-093	Chick	BS	H	SH08	Yr1	5		14.50	4.32	16.75	
P2000-151	Chick	BS	H	SH08	Br1	5		15.00	4.31	18.07	
P2000-153	Chick	BS	H	SH08	Gr1	5		16.50	4.50	12.98	
				SH08		5	3	Mean	15.33	4.38	15.93
								SD	1.04	0.11	2.64
								n	3	3	3
P2000-093	Chick	BS	H	SH08	Yr1	10		30.50	5.74	23.58	
P2000-151	Chick	BS	H	SH08	Br1	10		32.00	5.82	24.20	
P2000-153	Chick	BS	H	SH08	Gr1	10		33.50	5.94	24.10	
				SH08		10	3	Mean	32.00	5.83	23.96
								SD	1.50	0.10	0.33
								n	3	3	3
P2000-093	Chick	BS	H	SH08	Yr1	14		29.00	6.20	24.04	
P2000-151	Chick	BS	H	SH08	Br1	14		29.00	6.18	23.94	
P2000-153	Chick	BS	H	SH08	Gr1	14		30.00	7.02	24.00	
				SH08		14	3	Mean	29.33	6.47	23.99
								SD	0.58	0.48	0.05
								n	3	3	3
P2000-111	Chick	BS	H	SH12	Yr2	5		8.00	3.52	9.22	
P2000-155	Chick	BS	H	SH12	Rr2	5		5.00	3.06	8.58	
P2000-156	Chick	BS	H	SH12	Gr2	5		13.00	4.30	13.48	
P2000-157	Chick	BS	H	SH12	Br2	5		12.00	3.65	11.53	
P2000-158	Chick	BS	H	SH12	Or2	5		13.00	4.92	13.55	
P2000-159	Chick	BS	H	SH12	Pr2	5		11.00	4.05	11.52	
				SH12		5	6	Mean	10.33	3.92	11.31
								SD	3.20	0.65	2.08
								n	6	6	6
P2000-111	Chick	BS	H	SH12	Yr2	8		18.00	4.74	18.67	
P2000-155	Chick	BS	H	SH12	Rr2	8		12.00	4.19	14.63	
P2000-156	Chick	BS	H	SH12	Gr2	8		24.00	5.21	22.06	
P2000-157	Chick	BS	H	SH12	Br2	8		24.00	5.40	19.80	
P2000-158	Chick	BS	H	SH12	Or2	8		23.00	5.33	21.47	
P2000-159	Chick	BS	H	SH12	Pr2	8		22.00	5.42	20.15	
				SH12		8	6	Mean	20.50	5.05	19.46
								SD	4.72	0.49	2.66
								n	6	6	6

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age	In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days					
P2000-111	Chick	BS	H	SH12	Yr2	10			23.50	5.34	23.60
P2000-155	Chick	BS	H	SH12	Rr2	10			16.50	4.68	18.78
P2000-156	Chick	BS	H	SH12	Gr2	10			28.50	5.86	25.09
P2000-157	Chick	BS	H	SH12	Br2	10			28.00	6.04	25.00
P2000-158	Chick	BS	H	SH12	Or2	10			29.50	5.68	23.92
P2000-159	Chick	BS	H	SH12	Pr2	10			23.50	5.78	22.98
				SH12		10	6	Mean	24.92	5.56	23.23
								SD	4.86	0.49	2.33
								n	6	6	6
P2000-111	Chick	BS	H	SH12	Yr2	13			28.00	6.46	27.00
P2000-155	Chick	BS	H	SH12	Rr2	13			20.00	5.52	23.66
P2000-156	Chick	BS	H	SH12	Gr2	13			30.00	6.56	27.68
P2000-157	Chick	BS	H	SH12	Br2	13			32.00	7.08	26.40
P2000-158	Chick	BS	H	SH12	Or2	13			30.00	6.38	26.40
P2000-159	Chick	BS	H	SH12	Pr2	13			29.00	6.64	24.66
				SH12		13	6	Mean	28.17	6.44	25.97
								SD	4.22	0.51	1.51
								n	6	6	6
P2000-115	Chick	BS	I	SI06	Pr	5			11.50	3.47	13.91
P2000-161	Chick	BS	I	SI06	Gr	5			16.00	4.74	18.46
P2000-162	Chick	BS	I	SI06	Or	5			17.00	4.24	17.53
P2000-163	Chick	BS	I	SI06	Yr	5			15.00	4.64	15.72
				SI06		5	4	Mean	14.88	4.27	16.41
								SD	2.39	0.58	2.02
								n	4	4	4
P2000-115	Chick	BS	I	SI06	Pr	11			25.00	5.53	21.84
P2000-161	Chick	BS	I	SI06	Gr	11			28.00	6.50	26.00
P2000-162	Chick	BS	I	SI06	Or	11			29.00	6.18	24.94
P2000-163	Chick	BS	I	SI06	Yr	11			28.00	5.95	24.18
				SI06		11	4	Mean	27.50	6.04	24.24
								SD	1.73	0.41	1.77
								n	4	4	4
P2000-115	Chick	BS	I	SI06	Pr	13			26.00	5.70	22.44
P2000-161	Chick	BS	I	SI06	Gr	13			27.00	6.86	24.70
P2000-162	Chick	BS	I	SI06	Or	13			29.00	6.50	25.84
P2000-163	Chick	BS	I	SI06	Yr	13			27.00	6.73	25.11
				SI06		13	4	Mean	27.25	6.45	24.52
								SD	1.26	0.52	1.47
								n	4	4	4

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days				
P2000-100	Chick	BS	K	SK07	Gl1	5		15.00	3.50	16.71
P2000-178	Chick	BS	K	SK07	Ol1	5		16.50	3.92	16.08
P2000-179	Chick	BS	K	SK07	Yl1	5		16.50	3.98	17.15
P2000-180	Chick	BS	K	SK07	Pl1	5		16.50	3.89	18.89
				SK07		5	4	Mean	16.13	3.82
								SD	0.75	0.22
								n	4	1.20
									4	4
P2000-100	Chick	BS	K	SK07	Gl1	8		22.50	4.42	23.26
P2000-178	Chick	BS	K	SK07	Ol1	8		25.50	4.93	24.10
P2000-179	Chick	BS	K	SK07	Yl1	8		25.00	4.59	23.47
P2000-180	Chick	BS	K	SK07	Pl1	8		24.50	4.76	25.50
				SK07		8	4	Mean	24.38	4.68
								SD	1.31	0.22
								n	4	1.01
									4	4
P2000-100	Chick	BS	K	SK07	Gl1	11		32.00	5.62	25.30
P2000-178	Chick	BS	K	SK07	Ol1	11		31.00	5.42	26.22
P2000-179	Chick	BS	K	SK07	Yl1	11		30.00	6.15	23.65
P2000-180	Chick	BS	K	SK07	Pl1	11		31.00	6.04	26.71
				SK07		11	4	Mean	31.00	5.81
								SD	0.82	0.34
								n	4	1.35
									4	4
P2000-100	Chick	BS	K	SK07	Gl1	14		28.50	6.31	26.05
P2000-178	Chick	BS	K	SK07	Ol1	14		31.50	6.45	26.20
P2000-179	Chick	BS	K	SK07	Yl1	14		29.50	6.54	26.18
P2000-180	Chick	BS	K	SK07	Pl1	14		30.50	6.68	26.81
				SK07		14	4	Mean	30.00	6.50
								SD	1.29	0.16
								n	4	0.34
									4	4
P2000-126	Chick	BS	K	SK13	Gr2	5		12.50	3.69	15.51
P2000-127	Chick	BS	K	SK13	Pr2	5		13.50	3.68	15.84
P2000-128	Chick	BS	K	SK13	Yr2	5		13.00	3.99	13.94
P2000-129	Chick	BS	K	SK13	Rr2	5		9.50	3.64	13.38
P2000-130	Chick	BS	K	SK13	Br2	5		12.00	3.89	14.77
				SK13		5	5	Mean	12.10	3.78
								SD	1.56	0.15
								n	5	1.03
									5	5

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age	In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days					
P2000-126	Chick	BS	K	SK13	Gr2	8			18.50	4.83	22.38
P2000-127	Chick	BS	K	SK13	Pr2	8			18.50	4.69	21.78
P2000-128	Chick	BS	K	SK13	Yr2	8			18.00	4.99	21.34
P2000-129	Chick	BS	K	SK13	Rr2	8			13.00	4.47	19.29
P2000-130	Chick	BS	K	SK13	Br2	8			17.00	4.57	20.53
				SK13		8	5	Mean	17.00	4.71	21.06
								SD	2.32	0.21	1.20
								n	5	5	5
P2000-126	Chick	BS	K	SK13	Gr2	13			27.00	5.84	24.95
P2000-127	Chick	BS	K	SK13	Pr2	13			27.00	5.70	24.51
P2000-128	Chick	BS	K	SK13	Yr2	13			26.00	5.62	26.04
P2000-129	Chick	BS	K	SK13	Rr2	13			22.00	5.59	22.84
P2000-130	Chick	BS	K	SK13	Br2	13			25.00	6.22	25.05
				SK13		13	5	Mean	25.40	5.79	24.68
								SD	2.07	0.26	1.17
								n	5	5	5
P2000-095	Chick	BS	M	SM09-1	Bl1	6			17.50	4.53	18.68
P2000-193	Chick	BS	M	SM09-1	Pl1	6			18.00	5.46	19.78
P2000-194	Chick	BS	M	SM09-1	Yl1	6			18.50	4.78	20.55
P2000-195	Chick	BS	M	SM09-1	Rl1	6			19.00	5.12	19.24
P2000-196	Chick	BS	M	SM09-1	Gl1	6			18.00	4.59	19.04
P2000-197	Chick	BS	M	SM09-1	Ol1	6			18.00	4.12	19.58
				SM09-1		6	6	Mean	18.17	4.77	19.48
								SD	0.52	0.47	0.65
								n	6	6	6
P2000-095	Chick	BS	M	SM09-1	Bl1	9			27.00	5.44	24.50
P2000-193	Chick	BS	M	SM09-1	Pl1	9			26.00	5.39	22.68
P2000-194	Chick	BS	M	SM09-1	Yl1	9			26.00	5.37	24.42
P2000-195	Chick	BS	M	SM09-1	Rl1	9			26.00	5.70	24.12
P2000-196	Chick	BS	M	SM09-1	Gl1	9			26.00	5.33	24.25
P2000-197	Chick	BS	M	SM09-1	Ol1	9			25.50	5.16	23.52
				SM09-1		9	6	Mean	26.08	5.40	23.92
								SD	0.49	0.18	0.70
								n	6	6	6

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age	In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days					
P2000-095	Chick	BS	M	SM09-1	B11	11			29.50	6.17	22.63
P2000-193	Chick	BS	M	SM09-1	P11	11			27.50	6.36	23.17
P2000-194	Chick	BS	M	SM09-1	Y11	11			27.50	6.49	23.36
P2000-195	Chick	BS	M	SM09-1	R11	11			27.50	6.25	21.73
P2000-196	Chick	BS	M	SM09-1	G11	11			28.50	5.62	22.98
P2000-197	Chick	BS	M	SM09-1	O11	11			30.00	6.06	23.44
				SM09-1		11	6	Mean	28.42	6.16	22.89
								SD	1.11	0.30	0.64
							n		6	6	6
P2000-095	Chick	BS	M	SM09-1	B11	14			31.00	7.32	25.37
P2000-193	Chick	BS	M	SM09-1	P11	14			30.00	7.26	24.35
P2000-194	Chick	BS	M	SM09-1	Y11	14			30.00	6.73	24.09
P2000-195	Chick	BS	M	SM09-1	R11	14			29.50	6.57	24.28
P2000-196	Chick	BS	M	SM09-1	G11	14			30.00	6.19	24.78
P2000-197	Chick	BS	M	SM09-1	O11	14			31.00	7.10	23.95
				SM09-1		14	6	Mean	30.25	6.86	24.47
								SD	0.61	0.44	0.52
							n		6	6	6
P2000-120	Chick	BS	M	SM09-2	Rr2	5			12.50	3.99	14.86
P2000-198	Chick	BS	M	SM09-2	Yr2	5			16.50	4.52	17.65
P2000-199	Chick	BS	M	SM09-2	Or2	5			17.00	4.52	17.83
P2000-200	Chick	BS	M	SM09-2	Gr2	5			16.00	4.96	18.45
P2000-201	Chick	BS	M	SM09-2	Pr2	5			17.50	4.58	16.98
				SM09-2		5	5	Mean	15.90	4.51	17.15
								SD	1.98	0.35	1.39
							n		5	5	5
P2000-120	Chick	BS	M	SM09-2	Rr2	8			21.00	5.26	20.67
P2000-198	Chick	BS	M	SM09-2	Yr2	8			27.50	5.73	22.94
P2000-199	Chick	BS	M	SM09-2	Or2	8			25.00	5.73	23.34
P2000-200	Chick	BS	M	SM09-2	Gr2	8			25.00	5.84	23.81
P2000-201	Chick	BS	M	SM09-2	Pr2	8			25.00	5.51	23.87
				SM09-2		8	5	Mean	24.70	5.61	22.93
								SD	2.33	0.23	1.32
							n		5	5	5

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age	In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days					
P2000-120	Chick	BS	M	SM09-2	Rr2	11			28.50	5.90	24.24
P2000-198	Chick	BS	M	SM09-2	Yr2	11			31.00	6.42	24.77
P2000-199	Chick	BS	M	SM09-2	Or2	11			29.00	6.52	24.96
P2000-200	Chick	BS	M	SM09-2	Gr2	11			29.50	6.62	25.12
P2000-201	Chick	BS	M	SM09-2	Pr2	11			31.00	6.03	25.19
				SM09-2		11	5	Mean	29.80	6.30	24.86
								SD	1.15	0.32	0.38
								n	5	5	5
P2000-120	Chick	BS	M	SM09-2	Rr2	14			29.50	6.13	25.20
P2000-198	Chick	BS	M	SM09-2	Yr2	14			29.00	6.73	25.94
P2000-199	Chick	BS	M	SM09-2	Or2	14			28.00	6.93	25.40
P2000-200	Chick	BS	M	SM09-2	Gr2	14			28.00	6.95	26.48
P2000-201	Chick	BS	M	SM09-2	Pr2	14			31.00	7.18	25.48
				SM09-2		14	5	Mean	29.10	6.78	25.70
								SD	1.24	0.40	0.51
								n	5	5	5
P2000-104	Chick	BS	O	SO17	Ol	5			9.00	3.38	11.13
P2000-222	Chick	BS	O	SO17	Bl	5			12.00	3.57	13.38
P2000-223	Chick	BS	O	SO17	Gl	5			12.00	3.77	14.09
P2000-224	Chick	BS	O	SO17	Yl	5			12.00	3.64	14.29
P2000-225	Chick	BS	O	SO17	Rl	5			15.00	4.22	15.77
				SO17		5	5	Mean	12.00	3.72	13.73
								SD	2.12	0.32	1.69
								n	5	5	5
P2000-104	Chick	BS	O	SO17	Ol	8			18.00	3.72	20.02
P2000-222	Chick	BS	O	SO17	Bl	8			22.00	4.62	21.78
P2000-223	Chick	BS	O	SO17	Gl	8			19.50	4.92	20.11
P2000-224	Chick	BS	O	SO17	Yl	8			20.00	5.18	18.26
P2000-225	Chick	BS	O	SO17	Rl	8			21.50	4.48	21.53
				SO17		8	5	Mean	20.20	4.58	20.34
								SD	1.60	0.55	1.41
								n	5	5	5

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age	In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days					
P2000-104	Chick	BS	O	SO17	Ol	10			23.50	5.51	22.54
P2000-222	Chick	BS	O	SO17	Bl	10			25.50	5.37	23.92
P2000-223	Chick	BS	O	SO17	Gl	10			23.00	5.52	22.98
P2000-224	Chick	BS	O	SO17	Yl	10			22.00	5.52	23.40
P2000-225	Chick	BS	O	SO17	Rl	10			23.50	5.90	21.88
				SO17		10	5	Mean	23.50	5.56	22.94
								SD	1.27	0.20	0.78
								n	5	5	5
P2000-104	Chick	BS	O	SO17	Ol	14			30.50	6.35	23.91
P2000-222	Chick	BS	O	SO17	Bl	14			29.50	6.56	23.83
P2000-223	Chick	BS	O	SO17	Gl	14			28.50	6.56	24.65
P2000-224	Chick	BS	O	SO17	Yl	14			28.50	6.58	23.18
P2000-225	Chick	BS	O	SO17	Rl	14			29.50	6.50	23.89
				SO17		14	5	Mean	29.30	6.51	23.89
								SD	0.84	0.09	0.52
								n	5	5	5
<b><u>Chickadee</u></b>											
P2000-098	Chick	CB	B#38	B#38	A	10	1		9.50	3.25	16.48
P2000-098	Chick	CB	B#38	B#38	A	12	1		10.00	3.80	16.10
P2000-098	Chick	CB	B#38	B#38	A	14	1		10.00	4.36	18.37
P2000-099	Chick	CS	B	SB12	Pr	10			10.50	4.52	16.39
P2000-118	Chick	CS	B	SB12	Yr	10			9.00	4.27	17.02
				SB12		10	2	Mean	9.75	4.40	16.71
								SD	1.06	0.18	0.45
								n	2	2	2
P2000-099	Chick	CS	B	SB12	Pr	13			11.00	4.62	17.00
P2000-118	Chick	CS	B	SB12	Yr	13			10.00	4.48	15.97
				SB12		13	2	Mean	10.50	4.55	16.49
								SD	0.71	0.10	0.73
								n	2	2	2

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In	N	Weight (grams)	Bill (mm)	Tarsus (mm)
						Days				
P2000-099	Chick	CS	B	SB12	Pr	14		10.50	5.16	18.00
P2000-118	Chick	CS	B	SB12	Yr	14		10.00	4.80	17.62
				SB12		14	2	Mean	10.25	4.98
								SD	0.35	0.25
								n	2	2
P2000-186	Chick	CS	L	SL02	Gr	10		10.00	4.89	16.34
P2000-187	Chick	CS	L	SL02	Br	10		9.50	4.68	15.82
P2000-188	Chick	CS	L	SL02	Yr	10		10.50	4.32	16.00
P2000-189	Chick	CS	L	SL02	Gl	10		10.00	4.41	16.45
P2000-190	Chick	CS	L	SL02	Pr	10		9.00	4.74	16.26
P2000-191	Chick	CS	L	SL02	Rr	10		8.00	4.60	15.54
P2000-192	Chick	CS	L	SL02	Ol	10		11.00	4.72	15.46
				SL02		10	8	Mean	9.88	4.60
								SD	1.03	0.20
								n	8	8
P2000-101	Chick	CS	L	SL02	Or	12			4.11	17.96
P2000-186	Chick	CS	L	SL02	Gr	12		12.00	5.24	15.87
P2000-187	Chick	CS	L	SL02	Br	12		12.00	4.46	16.33
P2000-188	Chick	CS	L	SL02	Yr	12		13.00	4.35	17.01
P2000-189	Chick	CS	L	SL02	Gl	12		11.00	4.84	16.12
P2000-190	Chick	CS	L	SL02	Pr	12		12.00	5.06	16.55
P2000-191	Chick	CS	L	SL02	Rr	12		12.00	4.84	17.32
P2000-192	Chick	CS	L	SL02	Ol	12		13.00	4.91	17.72
				SL02		12	8	Mean	12.14	4.73
								SD	0.69	0.38
								n	7	8
P2000-101	Chick	CS	L	SL02	Or	14		12.50	5.44	18.60
P2000-186	Chick	CS	L	SL02	Gr	14		11.50	5.38	19.68
P2000-187	Chick	CS	L	SL02	Br	14		11.50	5.08	18.92
P2000-188	Chick	CS	L	SL02	Yr	14		12.50	5.06	17.48
P2000-189	Chick	CS	L	SL02	Gl	14		11.00	5.26	17.68
P2000-190	Chick	CS	L	SL02	Pr	14		12.00	5.20	18.68
P2000-191	Chick	CS	L	SL02	Rr	14		12.00	5.32	19.24
P2000-192	Chick	CS	L	SL02	Ol	14		12.00	5.42	19.54
				SL02		14	8	Mean	11.88	5.27
								SD	0.52	0.15
								n	8	8

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsus (mm)
<u>Tree Swallow</u>										
P2000-106	Chick	TB	B#32	B#32	Gr	5		8.00	3.55	11.56
P2000-247	Chick	TB	B#32	B#32	Yr	5		8.00	3.23	10.84
P2000-248	Chick	TB	B#32	B#32	Or	5		6.00	3.20	10.90
P2000-249	Chick	TB	B#32	B#32	Pr	5		9.50	3.21	11.58
				B#32		5	4	Mean	7.88	3.30
								SD	1.44	0.17
								n	4	4
P2000-106	Chick	TB	B#32	B#32	Gr	9		17.50	4.10	12.20
P2000-247	Chick	TB	B#32	B#32	Yr	9			3.36	13.30
P2000-248	Chick	TB	B#32	B#32	Or	9		18.50	4.35	13.03
P2000-249	Chick	TB	B#32	B#32	Pr	9		19.50	4.10	13.60
				B#32		9	4	Mean	18.50	3.98
								SD	1.00	0.43
								n	3	4
P2000-106	Chick	TB	B#32	B#32	Gr	12		21.00	4.56	13.34
P2000-247	Chick	TB	B#32	B#32	Yr	12		23.00	4.63	14.32
P2000-248	Chick	TB	B#32	B#32	Or	12		21.00	4.51	14.54
P2000-249	Chick	TB	B#32	B#32	Pr	12		22.00	4.57	13.37
				B#32		12	4	Mean	21.75	4.57
								SD	0.96	0.05
								n	4	0.63
P2000-103	Chick	TB	B#36	B#36	Rr	6		13.00	3.68	11.68
P2000-250	Chick	TB	B#36	B#36	Br	6		11.00	3.76	11.22
P2000-251	Chick	TB	B#36	B#36	Gl	6		9.00	3.17	10.17
P2000-252	Chick	TB	B#36	B#36	Pl	6		10.00	3.56	10.93
P2000-253	Chick	TB	B#36	B#36	Gr	6		10.00	3.31	10.74
P2000-254	Chick	TB	B#36	B#36	Yr	6		8.00	3.06	10.66
				B#36		6	6	Mean	10.17	3.42
								SD	1.72	0.29
								n	6	0.52

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-103	Chick	TB	B#36	B#36	Rr	8		16.50	3.89	14.25
P2000-250	Chick	TB	B#36	B#36	Br	8		16.00	3.89	13.29
P2000-251	Chick	TB	B#36	B#36	Gl	8		14.50	3.62	11.81
P2000-252	Chick	TB	B#36	B#36	Pl	8		14.50	3.65	11.60
P2000-253	Chick	TB	B#36	B#36	Gr	8		15.00	3.90	12.82
P2000-254	Chick	TB	B#36	B#36	Yr	8		13.00	3.32	11.70
				B#36		8	6	Mean 14.92	3.71	12.58
								SD 1.24	0.23	1.07
							n 6	6	6	6
P2000-103	Chick	TB	B#36	B#36	Rr	13		22.50	4.58	13.02
P2000-250	Chick	TB	B#36	B#36	Br	13		23.00	4.91	13.30
P2000-251	Chick	TB	B#36	B#36	Gl	13		23.00	4.50	13.50
P2000-252	Chick	TB	B#36	B#36	Pl	13		22.00	4.16	12.76
P2000-253	Chick	TB	B#36	B#36	Gr	13		22.00	4.60	13.14
P2000-254	Chick	TB	B#36	B#36	Yr	13		23.50	4.78	13.35
				B#36		13	6	Mean 22.67	4.59	13.18
								SD 0.61	0.26	0.26
							n 6	6	6	6
P2000-123	Chick	TS	B	SB03	Pr	8		14.00	3.97	13.64
P2000-131	Chick	TS	B	SB03	Rr	8		14.00	4.10	12.56
P2000-132	Chick	TS	B	SB03	Gr	8		16.00	4.42	12.68
P2000-133	Chick	TS	B	SB03	Gl	8		18.00	4.49	14.16
P2000-134	Chick	TS	B	SB03	Pl	8		14.00	3.85	12.43
				SB03		8	5	Mean 15.20	4.17	13.09
								SD 1.79	0.28	0.76
							n 5	5	5	5
P2000-123	Chick	TS	B	SB03	Pr	10		17.50	4.41	12.53
P2000-131	Chick	TS	B	SB03	Rr	10		18.00	4.30	13.65
P2000-132	Chick	TS	B	SB03	Gr	10		19.00	4.41	13.26
P2000-133	Chick	TS	B	SB03	Gl	10		19.00	4.79	13.62
P2000-134	Chick	TS	B	SB03	Pl	10		15.00	3.89	13.21
				SB03		10	5	Mean 17.70	4.36	13.25
								SD 1.64	0.32	0.45
							n 5	5	5	5

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-123	Chick	TS	B	SB03	Pr	12		17.00	4.20	13.26
P2000-131	Chick	TS	B	SB03	Rr	12		18.00	4.51	13.12
P2000-132	Chick	TS	B	SB03	Gr	12		20.00	4.56	13.50
P2000-133	Chick	TS	B	SB03	Gl	12		20.00	5.24	12.60
P2000-134	Chick	TS	B	SB03	Pl	12		15.00	4.12	12.60
				SB03		12	5	Mean SD n	4.53 2.12 5	13.02 0.44 5
P2000-108	Chick	TS	H	SH02	Yr	5		9.00	3.26	10.18
P2000-146	Chick	TS	H	SH02	Pr	5		8.00	3.18	9.18
P2000-149	Chick	TS	H	SH02	Gr	5		10.00	3.45	9.88
				SH02		5	3	Mean SD n	3.30 1.00 3	9.75 0.14 3
P2000-108	Chick	TS	H	SH02	Yr	8		17.50	3.90	11.89
P2000-146	Chick	TS	H	SH02	Pr	8		17.50	4.03	13.16
P2000-149	Chick	TS	H	SH02	Gr	8		17.00	4.14	11.82
				SH02		8	3	Mean SD n	17.33 0.29 3	12.29 0.12 3
P2000-108	Chick	TS	H	SH02	Yr	10		22.00	4.32	14.22
P2000-146	Chick	TS	H	SH02	Pr	10		21.00	4.69	13.73
P2000-149	Chick	TS	H	SH02	Gr	10		17.50	4.40	14.50
				SH02		10	3	Mean SD n	20.17 2.36 3	14.15 0.19 3
P2000-108	Chick	TS	H	SH02	Yr	13		23.00	5.18	13.42
P2000-146	Chick	TS	H	SH02	Pr	13		25.00	4.94	14.28
P2000-149	Chick	TS	H	SH02	Gr	13		20.00	5.00	12.86
				SH02		13	3	Mean SD n	22.67 2.52 3	13.52 0.12 3
P2000-116	Chick	TS	I	SI18	Pr	6	1	9.50	3.58	11.43
P2000-116	Chick	TS	I	SI18	Pr	8	1	13.00	4.08	13.18

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-116	Chick	TS	I	SI18	Pr	10	1	18.00	4.48	14.08
P2000-116	Chick	TS	I	SI18	Pr	13	1	17.00	4.60	14.18
P2000-112	Chick	TS	J	SJ06	Gr	6		13.00	3.74	11.75
P2000-169	Chick	TS	J	SJ06	Yr	6		9.00	3.35	10.40
P2000-170	Chick	TS	J	SJ06	Br	6		10.00	3.79	11.07
P2000-171	Chick	TS	J	SJ06	Pr	6		13.00	3.78	11.41
P2000-172	Chick	TS	J	SJ06	Rr	6		10.00	3.69	11.66
				SJ06		6	5	Mean SD n	3.67 0.18 5	11.26 0.55 5
P2000-112	Chick	TS	J	SJ06	Gr	9		19.00	4.32	13.32
P2000-169	Chick	TS	J	SJ06	Yr	9		16.00	4.02	11.94
P2000-170	Chick	TS	J	SJ06	Br	9		12.00	4.36	12.65
P2000-171	Chick	TS	J	SJ06	Pr	9		20.00	4.27	13.41
P2000-172	Chick	TS	J	SJ06	Rr	9		18.00	4.26	13.27
				SJ06		9	5	Mean SD n	4.25 0.13 5	12.92 0.62 5
P2000-112	Chick	TS	J	SJ06	Gr	11		20.00	4.76	12.84
P2000-169	Chick	TS	J	SJ06	Yr	11		19.00	4.44	12.58
P2000-170	Chick	TS	J	SJ06	Br	11		14.00	4.30	12.45
P2000-171	Chick	TS	J	SJ06	Pr	11		20.00	4.78	12.98
P2000-172	Chick	TS	J	SJ06	Rr	11		19.00	4.89	12.52
				SJ06		11	5	Mean SD n	4.63 0.25 5	12.67 0.23 5
P2000-112	Chick	TS	J	SJ06	Gr	13		20.00	4.96	13.02
P2000-169	Chick	TS	J	SJ06	Yr	13		17.00	4.68	12.78
P2000-170	Chick	TS	J	SJ06	Br	13		16.00	4.62	12.00
P2000-171	Chick	TS	J	SJ06	Pr	13		20.00	5.22	13.04
P2000-172	Chick	TS	J	SJ06	Rr	13		19.00	5.00	12.32
				SJ06		13	5	Mean SD n	4.90 0.25 5	12.63 0.46 5

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-121	Chick	TS	K	SK05	Yr	6		14.00	3.76	13.24
P2000-174	Chick	TS	K	SK05	Or	6		12.50	3.93	12.61
P2000-175	Chick	TS	K	SK05	Rr	6		10.00	3.46	11.16
P2000-176	Chick	TS	K	SK05	Pr	6		13.00	3.98	12.40
P2000-177	Chick	TS	K	SK05	Gr	6		14.00	3.82	13.05
				SK05		6	5	Mean SD n	12.70 1.64 5	3.79 0.20 5
				SK05		8	5	Mean SD n	12.49 1.64 5	
P2000-121	Chick	TS	K	SK05	Yr	8		18.50	4.05	15.02
P2000-174	Chick	TS	K	SK05	Or	8		17.00	4.46	14.90
P2000-175	Chick	TS	K	SK05	Rr	8		15.00	3.91	14.44
P2000-176	Chick	TS	K	SK05	Pr	8		16.50	4.01	14.56
P2000-177	Chick	TS	K	SK05	Gr	8		17.50	3.97	14.86
				SK05		8	5	Mean SD n	14.76 1.29 5	
				SK05		10	5	Mean SD n	16.90 1.29 5	
P2000-121	Chick	TS	K	SK05	Yr	10		21.50	4.17	14.20
P2000-174	Chick	TS	K	SK05	Or	10		20.50	4.70	14.19
P2000-175	Chick	TS	K	SK05	Rr	10		19.50	4.09	12.20
P2000-176	Chick	TS	K	SK05	Pr	10		19.00	4.77	13.98
P2000-177	Chick	TS	K	SK05	Gr	10		20.50	4.78	14.39
				SK05		10	5	Mean SD n	13.79 0.97 5	
				SK05		10	5	Mean SD n	20.20 0.97 5	
P2000-121	Chick	TS	K	SK05	Yr	13		23.00	5.13	13.90
P2000-174	Chick	TS	K	SK05	Or	13		23.00	5.24	13.86
P2000-175	Chick	TS	K	SK05	Rr	13		22.00	4.80	13.38
P2000-176	Chick	TS	K	SK05	Pr	13		22.00	5.10	13.30
P2000-177	Chick	TS	K	SK05	Gr	13		23.00	5.68	13.97
				SK05		13	5	Mean SD n	13.68 0.55 5	
				SK05		13	5	Mean SD n	22.60 0.32 5	

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-109	Chick	TS	K	SK09	R1	6		12.50	3.68	13.30
P2000-182	Chick	TS	K	SK09	Pl	6		13.50	3.62	13.40
P2000-183	Chick	TS	K	SK09	Y1	6		13.00	3.65	12.00
P2000-184	Chick	TS	K	SK09	Gl	6		10.00	3.44	11.80
P2000-185	Chick	TS	K	SK09	Ol	6		14.00	3.51	12.57
				SK09		6	5	Mean SD n	12.60 1.56 5	3.58 0.10 5
				SK09		8	5	Mean SD n	12.61 0.73 5	
P2000-109	Chick	TS	K	SK09	R1	8		18.00	4.29	12.72
P2000-182	Chick	TS	K	SK09	Pl	8		19.50	4.31	14.63
P2000-183	Chick	TS	K	SK09	Y1	8		18.00	4.14	12.90
P2000-184	Chick	TS	K	SK09	Gl	8		13.50	3.34	12.32
P2000-185	Chick	TS	K	SK09	Ol	8		20.00	3.90	12.83
				SK09		8	5	Mean SD n	17.80 2.56 5	4.00 0.40 5
				SK09		10	5	Mean SD n	13.08 0.90 5	
P2000-109	Chick	TS	K	SK09	R1	10		20.00	4.29	13.69
P2000-182	Chick	TS	K	SK09	Pl	10		23.00	4.60	15.03
P2000-183	Chick	TS	K	SK09	Y1	10		20.00	4.61	13.42
P2000-184	Chick	TS	K	SK09	Gl	10		18.00	4.56	13.75
P2000-185	Chick	TS	K	SK09	Ol	10		22.00	4.63	13.27
				SK09		10	5	Mean SD n	13.83 0.70 5	
				SK09		10	5	Mean SD n	20.60 1.95 5	4.54 0.14 5
P2000-109	Chick	TS	K	SK09	R1	12		18.00	4.55	13.27
P2000-182	Chick	TS	K	SK09	Pl	12		21.00	5.23	13.33
P2000-183	Chick	TS	K	SK09	Y1	12		20.00	4.92	13.26
P2000-184	Chick	TS	K	SK09	Gl	12		19.00	4.78	13.31
P2000-185	Chick	TS	K	SK09	Ol	12		20.00	4.95	13.25
				SK09		12	5	Mean SD n	13.28 0.03 5	
				SK09		12	5	Mean SD n	19.60 1.14 5	4.89 0.25 5
P2000-119	Chick	TS	N	SN02	Gl	6		14.50	3.97	11.94
P2000-203	Chick	TS	N	SN02	Pl	6		13.50	3.49	12.31
				SN02		6	2	Mean SD n	12.13 0.26 2	
				SN02		6	2	Mean SD n	14.00 0.34 2	
								Continued		

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-119	Chick	TS	N	SN02	Gl	8		16.50	4.42	13.20
P2000-203	Chick	TS	N	SN02	Pl	8		16.50	4.46	13.54
				SN02		8	2	Mean SD n	4.44 0.03 2	13.37 0.24 2
P2000-119	Chick	TS	N	SN02	Gl	10		18.00	5.12	13.60
P2000-203	Chick	TS	N	SN02	Pl	10		17.00	4.71	13.82
				SN02		10	2	Mean SD n	4.92 0.29 2	13.71 0.16 2
P2000-119	Chick	TS	N	SN02	Gl	12		20.00	5.02	14.35
P2000-203	Chick	TS	N	SN02	Pl	12		18.00	5.24	12.81
				SN02		12	2	Mean SD n	5.13 0.16 2	13.58 1.09 2
P2000-102	Chick	TS	O	SO02	Bl	6		8.00	3.45	10.88
P2000-214	Chick	TS	O	SO02	Gl	6		7.50	2.98	9.92
P2000-215	Chick	TS	O	SO02	Pl	6		9.00	3.30	10.10
P2000-216	Chick	TS	O	SO02	Yl	6		8.50	3.29	9.74
				SO02		6	4	Mean SD n	3.26 0.20 4	10.16 0.50 4
P2000-102	Chick	TS	O	SO02	Bl	8		12.00	3.58	11.84
P2000-214	Chick	TS	O	SO02	Gl	8		11.00	3.10	11.20
P2000-215	Chick	TS	O	SO02	Pl	8		12.00	3.70	12.72
P2000-216	Chick	TS	O	SO02	Yl	8		13.50	4.10	12.68
				SO02		8	4	Mean SD n	3.62 0.41 4	12.11 0.73 4

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-102	Chick	TS	O	SO02	Bl	10		16.50	3.26	12.72
P2000-214	Chick	TS	O	SO02	Gl	10		16.50	3.78	12.28
P2000-215	Chick	TS	O	SO02	Pl	10		17.50	4.01	12.67
P2000-216	Chick	TS	O	SO02	Yl	10		19.50	4.54	12.87
				SO02		10	4	Mean	17.50	3.90
								SD	1.41	0.53
								n	4	4
									4	4
P2000-102	Chick	TS	O	SO02	Bl	12		19.50	4.60	13.49
P2000-214	Chick	TS	O	SO02	Gl	12		20.50	4.40	13.82
P2000-215	Chick	TS	O	SO02	Pl	12		19.00	4.27	13.22
P2000-216	Chick	TS	O	SO02	Yl	12		21.00	4.83	13.74
				SO02		12	4	Mean	20.00	4.53
								SD	0.91	0.24
								n	4	4
									4	4
P2000-107	Chick	TS	O	SO16	Pr	5		8.50	3.24	11.39
P2000-217	Chick	TS	O	SO16	Gr	5		9.00	3.52	11.65
P2000-218	Chick	TS	O	SO16	Bl	5		6.00	2.87	9.73
P2000-219	Chick	TS	O	SO16	Yr	5		8.00	3.34	10.91
P2000-220	Chick	TS	O	SO16	Gl	5		9.00	3.51	11.31
P2000-221	Chick	TS	O	SO16	Pl	5		8.00	3.10	11.51
				SO16		5	6	Mean	8.08	3.26
								SD	1.11	0.25
								n	6	6
									6	6
P2000-107	Chick	TS	O	SO16	Pr	9		19.50	4.62	13.95
P2000-217	Chick	TS	O	SO16	Gr	9		20.00	4.58	12.68
P2000-218	Chick	TS	O	SO16	Bl	9		18.50	4.50	12.42
P2000-219	Chick	TS	O	SO16	Yr	9		21.00	4.32	14.13
P2000-220	Chick	TS	O	SO16	Gl	9		21.50	4.52	13.84
P2000-221	Chick	TS	O	SO16	Pl	9		19.50	4.63	13.08
				SO16		9	6	Mean	20.00	4.53
								SD	1.10	0.11
								n	6	6
									6	6

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsus (mm)	
P2000-107	Chick	TS	O	SO16	Pr	12		24.00	5.12	14.11	
P2000-217	Chick	TS	O	SO16	Gr	12		22.00	4.64	13.46	
P2000-218	Chick	TS	O	SO16	Bl	12		23.00	4.76	13.39	
P2000-219	Chick	TS	O	SO16	Yr	12		24.00	4.77	13.81	
P2000-220	Chick	TS	O	SO16	Gl	12		23.00	5.02	13.73	
P2000-221	Chick	TS	O	SO16	Pl	12		21.00	5.23	13.05	
				SO16		12	6	Mean	22.83	4.92	13.59
								SD	1.17	0.23	0.37
							n	n	6	6	6
P2000-110	Chick	TS	P	SP09	Pl	6		14.50	3.62	13.80	
P2000-227	Chick	TS	P	SP09	Gl	6		13.50	3.72	13.04	
P2000-228	Chick	TS	P	SP09	Yl	6		15.00	3.42	12.10	
P2000-229	Chick	TS	P	SP09	Ol	6		17.50	3.49	13.22	
				SP09		6	4	Mean	15.13	3.56	13.04
								SD	1.70	0.13	0.71
							n	n	4	4	4
P2000-110	Chick	TS	P	SP09	Pl	8		19.00	4.50	13.18	
P2000-227	Chick	TS	P	SP09	Gl	8		18.00	4.54	13.51	
P2000-228	Chick	TS	P	SP09	Yl	8		20.00	4.08	13.03	
P2000-229	Chick	TS	P	SP09	Ol	8		22.00	4.80	14.91	
				SP09		8	4	Mean	19.75	4.48	13.66
								SD	1.71	0.30	0.86
							n	n	4	4	4
P2000-110	Chick	TS	P	SP09	Pl	10		21.00	5.10	13.85	
P2000-227	Chick	TS	P	SP09	Gl	10		21.00	4.55	14.67	
P2000-228	Chick	TS	P	SP09	Yl	10		22.00	4.45	14.64	
P2000-229	Chick	TS	P	SP09	Ol	10		23.00	4.91	14.73	
				SP09		10	4	Mean	21.75	4.75	14.47
								SD	0.96	0.30	0.42
							n	n	4	4	4
P2000-110	Chick	TS	P	SP09	Pl	13		23.00	4.87	14.88	
P2000-227	Chick	TS	P	SP09	Gl	13		23.00	4.78	14.64	
P2000-228	Chick	TS	P	SP09	Yl	13		25.00	4.50	15.03	
P2000-229	Chick	TS	P	SP09	Ol	13		26.00	5.08	15.06	
				SP09		13	4	Mean	24.25	4.81	14.90
								SD	1.50	0.24	0.19
							n	n	4	4	4

Continued

**Table 7-29A.** Continued

SampleID	SampleType	Species	Site	BoxID	Individual	Age In Days	N	Weight (grams)	Bill (mm)	Tarsu (mm)
P2000-117	Chick	TS	R	SR10	Gr	6		10.00	3.18	11.48
P2000-230	Chick	TS	R	SR10	Rr	6		13.00	3.64	12.31
P2000-231	Chick	TS	R	SR10	Br	6		11.00	3.62	10.98
P2000-232	Chick	TS	R	SR10	Pr	6		11.00	3.36	11.08
P2000-233	Chick	TS	R	SR10	Yr	6		9.50	3.49	10.28
				SR10		6	5	Mean SD n	3.46 0.19 5	11.23 0.74 5
P2000-117	Chick	TS	R	SR10	Gr	8		16.00	3.92	12.71
P2000-230	Chick	TS	R	SR10	Rr	8		18.00	4.17	13.36
P2000-231	Chick	TS	R	SR10	Br	8		16.50	4.01	12.82
P2000-232	Chick	TS	R	SR10	Pr	8		18.00	3.76	14.44
P2000-233	Chick	TS	R	SR10	Yr	8		15.50	4.17	13.74
				SR10		8	5	Mean SD n	4.01 0.17 5	13.41 0.71 5
P2000-117	Chick	TS	R	SR10	Gr	10		17.00	4.15	14.36
P2000-230	Chick	TS	R	SR10	Rr	10		17.50	4.26	14.74
P2000-231	Chick	TS	R	SR10	Br	10		19.00	4.23	14.89
P2000-232	Chick	TS	R	SR10	Pr	10		20.50	4.29	14.52
P2000-233	Chick	TS	R	SR10	Yr	10		18.00	4.19	15.51
				SR10		10	5	Mean SD n	4.22 0.06 5	14.80 0.44 5
P2000-117	Chick	TS	R	SR10	Gr	12		18.00	4.10	14.33
P2000-230	Chick	TS	R	SR10	Rr	12		20.00	4.42	14.68
P2000-231	Chick	TS	R	SR10	Br	12		18.00	4.35	14.22
P2000-232	Chick	TS	R	SR10	Pr	12		20.50	4.56	14.55
P2000-233	Chick	TS	R	SR10	Yr	12		18.00	4.28	14.04
				SR10		12	5	Mean SD n	4.34 0.17 5	14.36 0.26 5

**Table 7-25A. Demographics**  
 European starling demographics from the Anaconda Smelter Site, 1999.

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	H+I	E/D*100	G/E*100	G/(A-B)*100			
			#Eggs	Laid	#Collected	Eggs Missing	Eggs At Hatch	Nestlings At Hatch	#Addled	Nestlings At Fledge	Dead	Missing	Dead/missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency	%Nesting Success	
S	K	SK01	5	0	0	5	5	0	2	3	0	3	100	40	40			
S	K	SK02	6	1	5	0	0	0	0	0	0	0	-	-	-			
S	K	SK04	4	0	0	4	4	0	3	0	1	1	100	75	75			
S	K	SK05	1	0	0	0	0	1	0	0	0	0	-	-	-			
S	K	SK11	4	4	-	-	-	-	-	-	-	0	-	-	-			
S	K	SK12	5	1	0	4	4	0	2	1	1	2	100	50	50			
S	K	SK15	4	0	0	4	3	1	3	0	0	0	75	100	75			
N			7.00	Mean	4.14	0.86	0.83	2.83	2.67	0.33	1.67	0.67	0.33	0.86	93.75	66.25	60.00	
Tot			18.00	SD	1.57	1.46	2.04	2.23	2.16	0.52	1.37	1.21	0.52	1.21	12.50	26.89	17.80	57.14
			n		7	7	6	6	6	6	6	6	7	4	4	4		
S	L	SL03	5	1	0	4	4	0	3	0	1	1	100	75	75			
S	L	SL06	1	0	1	0	0	0	0	0	0	0	-	-	-			
S	L	SL08	1	0	1	0	0	0	0	0	0	0	-	-	-			
S	L	SL09	2	0	0	2	2	0	2	0	0	0	100	100	100			
S	L	SL12	5	1	0	4	3	1	2	0	1	1	75	66.667	50			
S	L	SL15	3	1	0	2	1	1	0	0	1	1	50	0	0			
S	L	SL20	4	0	0	4	3	1	2	1	0	1	75	66.667	50			
N			7.00	Mean	3.00	0.43	0.29	2.29	1.86	0.43	1.29	0.14	0.43	0.57	80.00	61.67	55.00	
Tot			20.00	SD	1.73	0.53	0.49	1.80	1.57	0.53	1.25	0.38	0.53	0.53	20.92	37.08	37.08	57.14
			n		7	7	7	7	7	7	7	7	7	5	5	5		

Continued

**Table 7-25A.** Continued

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	H+I	E/D*100	G/E*100	G/(A-B)*100	
			#EggsLaid	#Collected	Eggs Missing	Eggs At Hatch	Nestlings At Hatch	#Addled	Nestlings At Fledge	Dead	Missing	Dead/missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency	%Nesting Success
S	N	SN01	6	1	0	5	4	1	2	2	0	2	80	50	40	
S	N	SN04	5	5	-	-	-	-	-	-	-	0	-	-	-	
S	N	SN05	4	0	0	4	3	1	0	2	1	3	75	0	0	
S	N	SN06	5	1	0	4	4	0	3	1	0	1	100	75	75	
S	N	SN07	4	1	0	3	2	1	1	1	0	1	66.667	50	33.333	
S	N	SN13	4	0	0	4	3	1	3	0	0	0	75	100	75	
S	N	SN14	6	1	1	5	4	0	3	1	0	1	80	75	60	
S	N	SN20	4	0	0	4	4	0	0	4	0	4	100	0	0	
N		Mean	4.75	1.13	0.14	4.14	3.43	0.57	1.71	1.57	0.14	1.50	82.38	50.00	40.48	
Tot		20.00	SD	0.89	1.64	0.38	0.69	0.79	0.53	1.38	1.27	0.38	1.41	12.83	38.19	31.87
		n	8	8	7	7	7	7	7	7	7	8	7	7	7	
S	O	SO03	4	1	3	0	0	0	0	0	0	0	-	-	-	
S	O	SO04	1	0	0	0	0	1	0	0	0	0	-	-	-	
S	O	SO05	6	1	0	5	3	2	3	0	0	0	60	100	60	
S	O	SO11	5	1	0	4	4	0	0	1	2	3	100	0	0	
S	O	SO12	5	1	0	4	4	0	3	1	0	1	100	75	75	
S	O	SO13	5	1	0	4	3	1	3	0	0	0	75	100	75	
S	O	SO14	5	1	0	4	3	1	3	0	0	0	75	100	75	
S	O	SO16	5	5	-	-	-	-	-	-	-	-	-	-	-	
S	O	SO18	5	1	0	4	4	0	3	1	0	0	100	75	75	
N		Mean	4.56	1.33	0.38	3.13	2.63	0.63	1.88	0.38	0.25	0.57	85.00	75.00	60.00	
Tot		19.00	SD	1.42	1.41	1.06	1.96	1.69	0.74	1.55	0.52	0.71	1.13	17.32	38.73	30.00
		n	9	9	8	8	8	8	8	8	8	7	6	6	6	

Continued

**Table 7-25A.** Continued

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	H+I	E/D*100	G/E*100	G/(A-B)*100	
			#Eggs	Laid	#Collected	Eggs	Eggs	Nestlings	#Addled	Nestlings	Dead	Missing	Dead/missing	%Eggs	Hatched	%Fledging
			Missing	At Hatch	At Hatch			At Fledge						Efficiency	Efficiency	Success
S	Q	SQ05	3	0	0	3	2	1	0	2	0	2	66.667	0	0	0
S	Q	SQ02	5	1	0	4	4	0	3	1	0	1	100	75	75	
S	Q	SQ08	4	0	0	4	4	0	3	1	0	1	100	75	75	
S	Q	SQ12	4	0	0	4	1	3	1	0	0	0	25	100	25	
S	Q	SQ17	4	0	0	4	2	2	2	0	0	0	50	100	50	
S	Q	SQ20	1	0	0	0	0	1	0	0	0	0	-	-	-	
N		Mean	3.50	0.17	0.00	3.17	2.17	1.17	1.50	0.67	0.00	0.67	68.33	70.00	45.00	
Tot	20.00	SD	1.38	0.41	0.00	1.60	1.60	1.17	1.38	0.82	0.00	0.82	32.49	41.08	32.60	66.67
		n	6	6	6	6	6	6	6	6	6	6	5	5	5	

**Table 7-26A. Demographics**  
 European starling demographics from the Anaconda Smelter Site, 2000.

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	F/E*100	G/F*100	G/(A-B)*100
			EggsLaid	Collected	Eggs Missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Chicks At 15 Days	Collected Dead	Dead And Missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency
S	K	SK01	4	1	0	0	3	3	2	1	1	100	66.7	66.7
S	K	SK12	5	1	0	0	4	4	4	0	0	100	100	100
N	2.00	AVG	4.50	1.00	0.00	0.00	3.50	3.50	3.00	0.50	0.50	100.00	83.33	83.33
TOT	18.00	SD	0.71	0.00	0.00	0.00	0.71	0.71	1.41	0.71	0.71	0.00	23.57	23.57
	n		2	2	2	2	2	2	2	2	2	2	2	2
S	L	SL06	5	1	0	0	4	4	3	1	1	100	75	75
S	L	SL11	4	1	0	2	3	1	1	0	0	33.3	100	33.3
N	2.00	AVG	4.50	1.00	0.00	1.00	3.50	2.50	2.00	0.50	0.50	66.67	87.50	54.17
TOT	20.00	SD	0.71	0.00	0.00	1.41	0.71	2.12	1.41	0.71	0.71	47.14	17.68	29.46
	n		2	2	2	2	2	2	2	2	2	2	2	2

Continued

**Table 7-26A. Continued**

Species	Site	BoxID	A	B	C	D	E	F	G	H	I	F/E*100	G/F*100	G/(A-B)*100
			EggsLaid	Collected	Eggs Missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Chicks At 15 Days	Collected Dead	Dead And Missing	%Eggs Hatched	%Fledging Efficiency	%Nesting Efficiency
S	N	SN01	5	0	0	0	5	5	5	0	0	100	100	100
S	N	SN03	5	0	0	1	5	4	3	0	1	80	75	60
S	N	SN04	6	0	1	1	5	4	3	1	1	80	75	50
S	N	SN05	5	0	0	1	5	4	4	0	0	80	100	80
S	N	SN06	6	0	0	0	6	6	3	1	3	100	50	50
S	N	SN08	2	0	0	0	2	2	2	0	0	100	100	100
S	N	SN09	5	1	0	0	4	4	3	1	1	100	75	75
S	N	SN10	5	1	0	0	4	4	4	0	0	100	100	100
S	N	SN13	5	0	0	0	5	5	4	0	1	100	80	80
S	N	SN15	5	1	0	0	4	4	0	4	4	100	0	0
N 10.00		AVG	4.90	0.30	0.10	0.30	4.50	4.20	3.10	0.70	1.10	94.00	75.50	69.50
TOT 20.00		SD	1.10	0.48	0.32	0.48	1.08	1.03	1.37	1.25	1.37	9.66	31.22	31.13
		n	10	10	10	10	10	10	10	10	10	10	10	10
S	P	SP01	4	0	0	0	4	4	3	0	1	100	75	75
S	P	SP02	1	0	0	1	0	0	0	0	0	NA	NA	0
S	P	SP04	5	0	0	0	5	5	3	1	2	100	60	60
N 3.00		AVG	3.33	0.00	0.00	0.33	3.00	3.00	2.00	0.33	1.00	100.00	67.50	45.00
TOT 15.00		SD	2.08	0.00	0.00	0.58	2.65	2.65	1.73	0.58	1.00	0.00	10.61	39.69
		n	3	3	3	3	3	3	3	3	3	2	2	3

Continued

**Table 7-26A.** Continued

**Table 7-27A. Demographics**  
 Bluebird, Tree Swallow, and Chickadee demographics from the Anaconda Smelter Site, 2000.

A	B	C	D	E	F	G	H	I	J	K	L	M	I/H*100	(M+J)/I *100	(M+J)/A *100
Species	Site	BoxID	Eggs Laid	Eggs Collected missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Collected At 15 Days	Collected Dead	Dead Missing	Fledged	% Eggs Hatched	% Fledging Efficiency	% Nesting Efficiency	
B	B#23	B#23	6	0	0	6	6	1	0	0	5	100	100	100	
B	B#23	B#23	6	0	0	6	6	1	0	0	5	100	100	100	
BK	K#06	K#06	5	0	0	5	5	0	1	5	0	100	0	0	
BK	K#21	K#21	6	0	0	6	6	1	0	0	5	100	100	100	
BK	K#22	K#22	5	0	0	5	0	0	0	0	0	0	0	0	
BK	K#49	K#49	5	0	4	1	0	0	0	0	0	0	0	0	
BS	B	SB07	5	0	0	2	5	3	1	0	0	2	60	100	60
BS	B	SB07	5	0	0	1	5	4	1	0	0	3	80	100	80
BS	C	SC02	6	0	0	0	6	6	1	1	3	2	100	50	50
BS	C	SC10	5	0	0	2	5	3	1	0	0	2	60	100	60
BS	F	SF03	6	0	0	3	6	3	1	0	1	1	50	66.7	33.3
BS	F	SF03	4	0	0	2	4	2	1	0	1	0	50	50	25
BS	G	SG01	6	0	0	2	6	4	1	0	2	1	66.67	50	33.3
BS	H	SH08	7	0	0	1	7	6	1	3	3	2	85.71	50	42.9
BS	H	SH12	6	0	0	0	6	6	1	0	1	4	100	83.3	83.3
BS	I	SI06	5	0	0	0	5	5	1	0	1	3	100	80	80
BS	K	SK07	4	0	0	0	4	4	1	0	0	3	100	100	100
BS	K	SK13	5	0	0	0	5	5	1	0	0	4	100	100	100
BS	M	SM09-1	6	0	0	0	6	6	1	0	0	5	100	100	100
BS	M	SM09-2	6	0	1	0	6	5	1	0	0	4	83.3	100	83.3
BS	O	SO17	5	0	0	0	5	5	1	0	0	4	100	100	100
Mean		5.43	0.00	0.24	0.90	4.95	4.29	0.86	0.24	0.81	2.62	77.89	72.86	63.39	
SD		0.75	0.00	0.89	1.34	1.80	1.87	0.36	0.70	1.36	1.80	31.57	36.27	36.53	
n		21	21	21	21	21	21	21	21	21	21	21	21	21	
Sum		114	0	5	19	104	90	18	5	17	55				

Continued

**Table 7-27A. Continued**

A	B	C	D	E	F	G	H	I	J	K	L	M	I/H*100	(M+J)/I *100	(M+J)/A *100
Species	Site	BoxID	Eggs Laid	Eggs Collected	Eggs missing	Eggs Addled	Eggs At Hatch	Nestlings At Hatch	Collected At 15 Days	Collected Dead	Dead Missing	Fledged	% Eggs Hatched	% Fledging Efficiency	% Nesting Efficiency
CB	B#38	B#38	6	0	0	5	6	1	1	0	0	0	16.7	100	16.7
CS	B	SB12	7	0	1	4	6	2	1	0	0	1	33.3	100	28.6
CS	L	SL02	9	0	0	1	9	8	1	0	0	7	88.9	100	88.9
		Mean	7.33	0.00	0.33	3.33	7.00	3.67	1.00	0.00	0.00	2.67	46.30	100.00	44.71
		SD	1.53	0.00	0.58	2.08	1.73	3.79	0.00	0.00	0.00	3.79	37.82	0.00	38.72
		n	3	3	3	3	3	3	3	3	3	3	3	3	3
		Sum	22	0	1	10	21	11	3	0	0	8			
TB	B#32	B#32	5	0	0	1	5	4	1	0	0	3	80	100	80
TB	B#36	B#36	6	0	0	0	6	6	1	0	0	5	100	100	100
TS	B	SB03	5	0	0	0	5	5	1	0	0	4	100	100	100
TS	B	SB03	6	0	1	0	5	5	1	0	0	4	100	100	83.3
TS	F	SF10	5	0	3	2	0	0	0	0	0	0	0	0	0
TS	H	SH02	5	0	0	0	5	5	1	2	2	2	100	60	60
TS	I	SI18	6	0	0	0	6	6	1	5	5	0	100	16.7	16.7
TS	J	SJ06	6	0	1	0	5	5	1	0	0	4	100	100	83.3
TS	K	SK05	6	0	1	1	6	5	1	0	0	4	83.3	100	83.3
TS	K	SK09	7	0	0	1	7	6	1	1	1	4	85.7	83.3	71.4
TS	N	SN02	5	0	0	0	5	4	1	3	3	1	80	50	40
TS	O	SO02	5	0	0	1	5	4	1	0	0	3	80	100	80
TS	O	SO16	6	0	0	0	6	6	1	0	0	5	100	100	100
TS	P	SP09	5	0	0	1	5	4	1	0	0	3	80	100	80
TS	R	SR10	5	0	0	0	5	5	1	1	1	3	100	80	80
		Mean	5.53	0.00	0.40	0.47	5.07	4.67	0.93	0.80	0.80	3.00	85.94	79.33	70.54
		SD	0.64	0.00	0.83	0.64	1.53	1.50	0.26	1.47	1.47	1.60	25.52	33.08	29.73
		n	15	15	15	15	15	15	15	15	15	15	15	15	15
		Sum	83	0	6	7	76	70	14	12	12	45			



## 8 AMERICAN KESTREL APPENDIX TABLES

**Table 8-1A.** American kestrel nest boxes deployed on the Anaconda Smelter Site:  
Lat. and Long. Coordinates with brief descriptions of location and distance from Stack.

Box	Lat.	Long.	Dist. from Stack (m)	Description
1	46-06.00N	112-56.41W	2558 SW	Telephone pole. SW of Smelter hill.
2	46-05.93N	112-55.13W	1737 SW	Telephone pole. S of Smelter hill.
*3	46-06.87N	112-54.84W	44 NE	High voltage tower. Top of smelter hill.
4	46-06.23N	112-54.51W	1218 SE	Telephone pole. Geyser gulch.
5	46-06.33N	112-54.51W	1046 SE	Cottonwood tree. Geyser gulch.
*6	46-06.33N	112-54.12W	994 SE	Wooden post. Smelter hill aqueduct.
*7	46-07.00N	112-54.76W	295 NE	Telephone pole. Smelter hill water tower.
*8	46-06.86N	112-55.11W	348 NW	Cottonwood tree. Walker gulch, W of stack.
*9	46-06.99N	112-55.50W	890 NW	Small pine tree. Slag Gulch.
10	46-07.15N	112-55.22W	745 NW	Telephone pole. W of lab facility.
*11	46-07.20N	112-55.41W	1378 NW	Power line pole. W of main slagheap.
12	46-06.84N	112-53.91W	1198 SE	Metal trellis. SW of Anaconda pond.
13	46-06.65N	112-53.30W	2017 SE	Power line pole. S of Anaconda pond.
14	46-06.59N	112-52.92W	2519 SE	Power line pole. W of Mill Creek Road.
15	46-06.17N	112-53.10W	2568 SE	Telephone pole. Mill Creek town site.
16	46-06.15N	112-52.42W	3374 SE	Telephone pole. E of Mill Creek town site.
17	46-05.60N	112-52.09W	4229 SE	Cottonwood tree. SE of Mill Creek town site.
18	46-08.08N	112-54.94W	2289 NW	Cottonwood tree. SE of Anaconda landfill.
*19	46-07.47N	112.53.01W	2625 NE	Power line pole. HWY 1, N of Anaconda Pond.
20	46-08.16N	112-53.43W	3036 NE	Telephone pole. E of Galen road.
*21	46-07.84N	112-52.87W	3141 NE	Power line pole, E of HWY 48.
22	46-07.22N	112-51.99W	3736 NE	Cottonwood tree. SE corner of triangle wastes.
23	46-08.64N	112-53.49W	3750 NE	Telephone pole. Mile marker 1 of Galen Road.
24	46-08.64N	112-51.87W	5067 NE	Cottonwood tree. E of airport entrance, Hwy 48.
*25	46-07.88N	112-52.09W	4035 NE	Telephone pole. W of A-cell.
26	46-07.52N	112-51.22W	4827 NE	Wooden post. SW corner of A-cell.
27	46-07.01N	112-51.19W	4712 NE	Power line pole. NW of Country Club road.
*28	46-08.86N	112-51.12W	6067 NE	Telephone pole. HWY 48, NW of Opp. Ponds
*29	46-09.02N	112-50.39W	7004 NE	Cottonwood tree. N berm of C-cell.
30	46-08.10N	112-49.74W	6967 NE	Dead snag. Middle of C Cell.
31	46-07.53N	112-49.76W	6665 NE	A-frame structure. S berm between B & C-cells.

Continued

**Table 8-1A.** Continued

Box	Lat.	Long.	Dist. from Stack (m)	Description
32	46-07.48N	112-48.66W	8047	NE Cottonwood tree. SE corner of C-cell.
33	46-07.92N	112-48.66W	8205	NE Cottonwood tree. E slope of C-cell.
*34	46-08.73N	112-48.84W	8478	NE Decant tower. D-cell.
35	46.09.39N	112-49.65W	8177	NE Cottonwood tree. NW of D-cell.
36	46-09.51N	112-48.99W	9005	NE Cottonwood tree. N of D-cell.
37	46-09.24N	112-48.38W	9427	NE Telephone pole. E of D-cell.
*38	46-09.56N	112-47.87W	10286	NE Telephone pole. E of Box 37.
39	46-08.83N	112-48.19W	9319	NE Telephone pole. E of D-cell.
40	46-08.53N	112-48.08W	9248	NE Telephone pole. E of D-cell.
*41	46-08.33N	112-47.95W	9286	NE Telephone pole. W of Pond entrance from I-90.
*42	46-07.84N	112-48.06W	8925	NE Telephone pole. E of D-cell.
43	46-07.06N	112-47.94W	8897	NE Power line pole. S entrance to Warm Springs WMA.
44	46-06.46N	112-47.99W	8854	NE Power line pole. Road from Opportunity, W of I-90.
45	46-05.25N	112-47.93W	9382	NE Power line pole. W of I-90, S of HWY 1.
46	46-10.01N	112-48.08W	10493	NE Cottonwood tree. SW of HWY 48, W of I-90.
47	46-10.31N	112-48.31W	10576	NE Cottonwood tree. SW corner behind State Hospital.
48	46-10.71N	112-48.15W	11198	NE Telephone pole. W of State Hospital.
49	46-12.41N	112-45.53W	15805	NE Telephone pole. S of Lampert Ranch.
50	46-12.69N	112-45.63W	16052	NE Wooden post. Lampert Ranch.

**Table 8-2A.** Detection Limits for Metals data in Biological Tissues of American Kestrels, Lewis Woodpecker and Northern Flicker. Reporting limits are half detection limits

Year / Sample Type	Species	Average Sample Mass	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g
<b>Detection Limits 1999</b>							
Blood	Kestrel	1.586	0.428	0.032	0.194	0.065	0.098
Liver	Kestrel	0.881	0.771	0.057	0.350	0.116	0.177
Kidney	Kestrel	0.684	0.993	0.073	0.451	0.150	0.228
Egg	Kestrel	12.938	0.052	0.004	0.024	0.008	0.012
Food	Kestrel	5.666	0.120	0.009	0.054	0.018	0.028
<b>Reporting Limits 1999</b>							
Blood	Kestrel	1.586	0.214	0.016	0.097	0.032	0.049
Liver	Kestrel	0.881	0.385	0.028	0.175	0.058	0.089
Kidney	Kestrel	0.684	0.496	0.037	0.225	0.075	0.114
Egg	Kestrel	12.938	0.026	0.002	0.012	0.004	0.006
Food	Kestrel	5.666	0.060	0.004	0.027	0.009	0.014
<b>Detection Limits 2000</b>							
Blood	Kestrel	0.479	0.104	0.005	0.104	0.214	0.326
Food	Kestrel	5.552	0.023	0.001	0.023	0.046	0.070
Liver	Woodpecker	2.313	0.022	0.001	0.022	0.044	0.067
Kidney	Woodpecker	0.968	0.052	0.003	0.052	0.106	0.161
Liver	Flicker	2.596	0.019	0.001	0.019	0.040	0.060
Kidney	Flicker	1.460	0.034	0.002	0.034	0.070	0.107
<b>Reporting Limits 2000</b>							
Blood	Kestrel	0.479	0.052	0.003	0.052	0.107	0.163
Food	Kestrel	5.552	0.011	0.001	0.011	0.023	0.035
Liver	Woodpecker	2.313	0.011	0.001	0.011	0.022	0.034
Kidney	Woodpecker	0.968	0.026	0.001	0.026	0.053	0.081
Liver	Flicker	2.596	0.010	0.000	0.010	0.020	0.030
Kidney	Flicker	1.460	0.017	0.001	0.017	0.035	0.053

**Table 8-3A.** Egg and nestling data for occupied American kestrel nest boxes at the Anaconda Smelter Site, 1999

Box No.	Nest Initiation	Eggs					Nestlings			
		No. Laid	Removed For Analysis	Missing	Abandoned	Unhatched	Number Hatched	Survived to Fledging Age	Removed For Analysis	Actually Fledged
K 01	602	4	1	0	0	0	3	3	1	2
K 02***	621	2	0	0	2	0	0	0	0	0
K 07	527	4	1	0	0	0	3	3	1	2
K 12***	531	2	0	1	1	0	0	0	0	0
K 13	518	5	1	0	0	0	4	4	1	3
K 14	602	4	1	0	0	1	2	2	1	1
K 19*	523	5	1	0	0	0	4	4	4	0
K 20***	601	1	0	0	1	0	0	0	0	0
K 27	526	5	1	0	0	0	4	4	1	3
K 28	529	4	1	0	0	0	3	2	1	1
K 30	529	5	1	0	0	0	4	4	1	3
K 32***	603	1	0	0	1	0	0	0	0	0
K 35	529	4	1	0	0	0	3	3	1	2
K 39	529	5	1	0	0	2	2	2	1	1
K 40**	529	4	4	0	0	0	0	0	0	0
K 43	610	4	0	0	0	0	4	4	1	3
K 44	617	4	1	0	0	0	3	3	1	2
K 45	512	5	1	1	0	1	2	1	1	0
K 49	526	4	1	0	0	1	2	2	1	1
Totals		72	17	2	5	5	43	41	17	24

\* All nestlings collected for analysis

\*\* Clutch of eggs collected for analysis

\*\*\* Unsuccessful nesting attempt

**Table 8-4A.** Egg and nestling data for occupied American kestrel nest boxes at the Anaconda Smelter Site, 2000.

Box No.	Nest Initiation	Eggs				Nestlings			
		Laid	Missing	Abandoned	Unhatched	Hatched	Survive to Fledge Age	Dead In Box	Actually Fledged
K 01	528	4	0	0	0	4	4	0	4
K 04	609	3	1	0	2	0	0	0	0
K 17	522	4	0	0	0	4	4	0	4
K 23	530	5	1	0	4	0	0	0	0
K 24	520	3	0	0	0	3	3	0	3
K 26	612	4	0	4	0	0	0	0	0
K 32	601	4	2	0	0	2	0*	0	0
K 34	605	4	0	0	0	4	4	0	4
K 35	601	4	0	0	0	4	4	0	4
K 37	601	4	0	4	0	0	0	0	0
K 41	521	5	0	5	0	0	0	0	0
K 43	524	5	0	0	0	5	5	0	5
K 46	610	4	0	0	0	4	4	0	4
K 50	518	5	1	0	0	4	4	0	4
<b>Totals</b>		<b>58</b>	<b>5</b>	<b>13</b>	<b>6</b>	<b>34</b>	<b>32</b>	<b>0</b>	<b>32</b>
Lewis' Woodpecker									
K 15	519	4	0	0	0	4	0	4	0
K 14	611	5	0	0	5	0	0	0	0
Northern Flicker									
K 29	516	7	3	0	0	4	0**	2	0
<b>Totals</b>		<b>16</b>	<b>3</b>	<b>0</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>6</b>	<b>0</b>

\* All nestlings (n=2) from K#232 missing between Day 5 and 10.

\*\* Two nestlings from K#229 missing between Day 6 and 12.

**Table 8-5A.** Food item metal and As concentrations from American kestrel nestlings. Anaconda Smelter Site, 1999. Samples were collected from nestlings using esophageal constriction (EC) techniques or from nest box substrate were deposited. BDL is below detection limit.

Kestrel Box No.	Date	Nest or EC	Food Item	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g		
<b>Smelter Hill Associated Sites</b>										
K 01	716	EC	Rodent tissue	0.384	0.087	0.488	3.034	30.892		
K 01	726	EC	Dragonfly. Grasshopper	0.469	1.200	0.171	12.554	49.084		
K 07	709	EC	Rodent tissue	1.128	0.004	0.664	5.152	27.828		
K 07	719	Nest	Peromyscus carcass	0.962	0.004	1.018	10.957	30.432		
K 13	706	EC	Peromyscus carcass	6.822	0.134	3.312	11.483	42.065		
K 13	706	Nest	Peromyscus	8.112	0.339	6.173	35.857	50.660		
K 14	714	Nest	Rodent carcass	2.022	0.134	1.133	68.130	55.397		
K 14	719	EC	Grasshopper	2.645	0.082	0.861	10.789	74.813		
K 19	713	EC	Microtus	2.215	0.034	1.864	11.015	53.844		
K 27	705	EC	Rodent carcass	1.469	0.018	0.741	4.601	28.123		
K 27	709	EC	Rodent tissue	3.850	0.004	1.640	9.867	32.219		
<b>Opportunity Pond Associated Sites</b>										
K 28	711	EC	Grasshopper	0.060	0.004	0.743	16.572	31.500		
K 28	721	EC	2 Grasshoppers	1.114	0.184	1.070	32.843	51.641		
K 30	720	Nest	Peromyscus	0.389	0.036	0.604	2.035	22.172		
K 35	713	EC	Grasshopper	0.060	0.261	0.027	13.367	34.563		
K 35	723	Nest	Microtus	1.223	0.058	0.475	3.102	23.100		
K 39	710	EC	Avian tissue	0.592	0.094	1.119	13.444	35.288		
K 39	720	Nest	Rodent carcass	0.716	0.004	1.904	7.509	51.529		
K 43	725	EC	3 Grasshoppers. Rodent tissue	0.521	0.023	0.254	9.481	38.479		
K 43	803	EC	2 Grasshoppers. Rodent tissue	0.707	1.116	0.360	8.181	40.462		
K 43	803	Nest	Rodent carcass A	0.617	0.037	0.901	2.297	57.497		
K 43	803	Nest	Rodent carcass B	0.535	0.036	2.604	5.562	43.925		
K 44	725	Nest	Microtus	1.048	0.098	2.209	11.341	33.082		
K 44	803	Nest	Avian tissue	0.588	0.203	0.503	6.448	47.747		
K 45	705	EC	Rodent tissue	0.973	0.133	2.236	5.809	36.823		
K 45	709	Nest	Rodent carcass	1.937	0.049	3.497	8.507	34.801		
All Sites	Mean			N=26		1.583	0.168	1.407	12.690	40.691
	SD					1.940	0.304	1.348	13.848	12.358
	n					26	26	26	26	26
Smelter Hill Sites	Mean			N=11		2.734	0.185	1.642	16.676	43.214
	SD					2.562	0.350	1.729	19.157	15.006
	n					11	11	11	11	11
Opportunity Pond Sites	Mean			N=15		0.739	0.156	1.234	9.766	38.841
	SD					0.475	0.277	1.017	7.660	10.159
	n					15	15	15	15	15

**Table 8-6.A** Food item metal and As concentrations from American kestrel nestlings. Anaconda Smelter Site, 2000. Samples were collected from nestlings using esophageal constriction (EC) techniques or from nest box substrate were deposited. BDL is below detection limit.

Sample ID	Kestrel Box No.	Date Collected	Collection Method	Food Item	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g
<b>Smelter Associated Sites</b>									
K2000-052	K#201	711	Nest	Lower torso of Passerine chick	1.03	0.911	1.13	5.29	45.95
K2000-053	K#201	724	EC	3 Grasshoppers	1.57	0.908	0.220	42.29	67.81
K2000-054	K#217	711	EC	Rodent parts	1.56	0.606	1.288	13.05	46.72
K2000-055	K#217	716	EC	4 Grasshoppers. Rodent skull	1.29	0.211	0.438	48.85	82.04
K2000-056	K#224	710	Nest	1 Whole vole	6.47	0.060	2.84	26.00	45.10
K2000-057	K#224	713	EC	Rodent leg	1.54	0.084	3.12	6.85	35.74
<b>Opportunity Pond Associated Sites</b>									
K2000-058	K#234	707	Nest	1 Dragonfly	BDL	0.960	1.30	14.94	83.21
K2000-059	K#234	717	EC	Rodent parts and 1 Grasshopper	BDL	0.108	0.355	16.13	38.53
K2000-060	K#234	724	EC	2 Grasshoppers	0.555	0.058	0.052	39.51	40.77
K2000-061	K#235	718	EC	2 Entire Shrews	0.270	0.215	0.134	5.26	35.78
K2000-062	K#243	711	EC	Rodent parts and 1 Grasshopper	0.511	0.052	0.404	9.03	37.42
K2000-063	K#243	716	EC	2 Grasshoppers	BDL	BDL	0.098	13.20	43.23
K2000-064	K#246	715	Nest	Rodent torso	0.809	BDL	0.250	7.90	80.17
K2000-065	K#246	802	EC	Passerine leg and torso	BDL	0.060	0.140	13.53	52.81
K2000-066	K#250	707	Nest	Rodent backbone	BDL	BDL	0.184	6.86	40.60
K2000-067	K#250	707	Nest	Rodent parts and Passerine torso	BDL	0.243	0.261	7.04	49.42
K2000-068	K#250	707	EC	Grasshopper	BDL	BDL	0.172	17.67	35.53
K2000-069	K#250	713	EC	2 Rodent carcasses	BDL	0.061	0.053	5.88	25.38
All Sites		N = 18			Mean 1.56	0.32	0.69	16.63	49.23
					SD 1.79	0.36	0.93	13.58	17.38
					n 10	14	18	18	18
Smelter Hill Sites		N = 6			Mean 2.24	0.46	1.51	23.72	53.89
					SD 2.082	0.397	1.213	18.545	17.364
					n 6	6	6	6	6
Opportunity Pond Sites		N = 12			Mean 0.54	0.22	0.28	13.08	46.90
					SD 0.22	0.31	0.34	9.36	17.67
					n 4	8	12	12	12

**Table 8-7A.** Egg metal and As concentrations from American kestrel nestlings. Anaconda Smelter Site, 1999. \* Indicates abandoned and unincubated samples. BDL is below detection limit.

Sample ID	Kestrel Box No.	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g
K1999-50	K#40	BDL	BDL	0.032	0.139	2.724
K1999-51	K#40	BDL	BDL	0.032	0.190	3.427
K1999-52	K#40	BDL	BDL	0.027	0.197	3.366
K1999-53	K#40	BDL	BDL	0.029	0.174	3.480
	Box K#40	Mean	-	-	0.030	0.175
	Intra-Clutch	SD	-	-	0.002	0.026
	N=4	n	0	0	4	4
<u>Smelter Hill Associated Sites</u>						
K1999-01	K#01	BDL	BDL	0.033	0.206	2.951
K1999-07	K#07	BDL	BDL	0.073	0.160	2.835
K1999-12	K#13	BDL	BDL	BDL	0.186	2.906
K1999-17	K#14	BDL	BDL	0.029	0.163	3.501
K1999-21	K#19	BDL	BDL	0.062	0.143	3.997
K1999-96	K#20	BDL	BDL	0.103	0.158	3.987
K1999-26	K#27	BDL	BDL	0.022	0.155	2.691
<u>Opportunity Pond Associated Sites</u>						
K1999-31	K#28	BDL	BDL	0.034	0.188	3.553
K1999-35	K#30	BDL	BDL	0.047	0.193	2.667
K1999-40	K#32	BDL	BDL	0.029	0.179	2.578
K1999-41	K#35	BDL	BDL	0.034	0.129	2.959
K1999-45	K#39	BDL	BDL	0.042	0.182	3.202
	K#40	Mean	BDL	BDL	0.030	0.175
K1999-58	K#44	BDL	BDL	BDL	0.145	2.850
K1999-62	K#45	BDL	BDL	0.036	0.243	3.755
K1999-65	K#49	BDL	BDL	0.029	0.127	3.799
All Sites						
	Mean	-	-	0.043	0.171	3.217
	SD	-	-	0.022	0.030	0.485
	n	0	0	14	16	16
Smelter Hill Sites						
	Mean	-	-	0.054	0.167	3.267
	SD	-	-	0.031	0.021	0.556
	n	0	0	6	7	7
Opportunity Pond Sites						
	Mean	-	-	0.035	0.173	3.179
	SD	-	-	0.006	0.036	0.453
	n	0	0	8	9	9

**Table 8-8A.** Blood metal and As concentrations from American kestrel nestlings. Anaconda Smelter Site, 1999. BDL is below detection limit.

Sample ID	Kestrel Box No.	Chick	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g
K1999-23	K#19	B	BDL	BDL	0.368	1.906	4.945
K1999-24	K#19	C	BDL	BDL	0.293	0.270	5.290
K1999-25	K#19	D	BDL	BDL	BDL	1.570	5.229
BoxK#19		Mean	-	-	0.330	1.249	5.155
Intra-Clutch		SD	-	-	0.053	0.864	0.184
N=3		n	0	0	2	3	3
<u>Smelter Hill Associated Sites</u>							
K1999-02	K#01	A	BDL	BDL	0.277	0.198	3.867
K1999-10	K#07	C	BDL	BDL	0.365	1.667	4.986
K1999-15	K#13	C	BDL	BDL	0.423	3.033	5.622
K1999-19	K#14	B	BDL	BDL	0.277	1.072	3.864
	K#19	Mean	BDL	BDL	0.330	1.249	5.155
K1999-28	K#27	B	BDL	BDL	0.325	0.178	5.726
<u>Opportunity Pond Associated Sites</u>							
K1999-34	K#28	C	BDL	BDL	0.232	1.295	5.450
K1999-39	K#30	D	BDL	BDL	0.291	0.235	4.815
K1999-44	K#35	C	BDL	BDL	0.298	0.911	4.738
K1999-46	K#39	A	BDL	BDL	0.249	0.228	4.740
K1999-54	K#43	A	BDL	BDL	0.178	0.244	4.124
K1999-61	K#44	C	BDL	BDL	0.264	0.212	5.311
K1999-64	K#45	B	BDL	BDL	0.250	0.250	4.564
K1999-67	K#49	B	BDL	BDL	0.249	0.247	4.868
All Sites		Mean	-	-	0.286	0.787	4.845
		SD	-	-	0.061	0.829	0.596
		n	0	0	14	14	14
Smelter Hill Sites		Mean	-	-	0.333	1.233	4.870
		SD	-	-	0.056	1.062	0.826
		n	0	0	6	6	6
Opportunity Pond Sites		Mean	-	-	0.251	0.453	4.826
		SD	-	-	0.037	0.414	0.415
		n	0	0	8	8	8

**Table 8-9A.** Blood metal and As concentrations from American kestrel nestlings. Anaconda Smelter Site, 2000. BDL is below detection limit.

Sample ID	Field ID	Box ID	Days post-hatch	N	As	Cd	Pb	Cu	Zn
					µg/g	µg/g	µg/g	µg/g	µg/g
K2000-001	13847	K#201	10		0.114	0.011	BDL	4.123	14.134
K2000-002	13848	K#201	10		BDL	0.052	BDL	5.099	22.306
		K#201	10	2	Mean	0.114	0.031	-	4.611
					SD	-	0.029	-	0.690
					n	1	2	0	2
								2	2
K2000-001	13847	K#201	17		BDL	0.010	BDL	2.820	5.109
K2000-003	13849	K#201	17		BDL	0.037	0.186	0.643	5.413
K2000-004	13850	K#201	17		BDL	0.071	0.108	0.317	5.061
		K#201	17	3	Mean	-	0.039	0.147	1.260
					SD	-	0.031	0.055	1.361
					n	0	3	2	3
								3	3
K2000-001	13847	K#201	25		BDL	0.108	0.100	0.408	5.422
K2000-004	13850	K#201	25		BDL	0.179	0.197	0.543	5.995
		K#201	25	2	Mean	-	0.144	0.148	0.476
					SD	-	0.051	0.069	0.096
					n	0	2	2	2
								2	2
K2000-007	13843	K#217	10		BDL	0.011	BDL	1.222	5.267
K2000-008	13844	K#217	10		BDL	BDL	BDL	3.273	7.362
K2000-009	13845	K#217	10		BDL	BDL	BDL	1.105	6.255
		K#217	10	3	Mean	-	0.011	-	1.867
					SD	-	-	-	1.219
					n	0	1	0	3
								3	3
K2000-009	13845	K#217	17		BDL	0.054	BDL	1.186	6.628
K2000-010	13846	K#217	17		BDL	0.028	BDL	0.443	5.137
		K#217	17	2	Mean	-	0.041	-	0.815
					SD	-	0.018	-	0.525
					n	0	2	0	2
								2	2

Continued

**Table 8-9A.** Continued.

Sample ID	Field ID	Box ID	Days post-hatch	N	As	Cd	Pb	Cu	Zn
					µg/g	µg/g	µg/g	µg/g	µg/g
K2000-007	13843	K#217	25		BDL	0.062	0.209	0.613	3.532
K2000-008	13844	K#217	25		BDL	0.042	0.165	0.519	3.518
K2000-010	13846	K#217	25		BDL	0.637	0.326	0.856	8.279
		K#217	25	3	Mean	-	0.247	0.234	0.663
					SD	-	0.338	0.083	5.110
					n	0	3	3	2.745
								3	3
K2000-015	13835	K#224	10	1	BDL	0.004	0.092	1.129	6.353
K2000-016	13836	K#224	17		BDL	0.006	BDL	0.497	5.139
K2000-017	13837	K#224	17		BDL	BDL	0.054	0.822	4.571
		K#224	17	2	Mean	-	0.006	0.054	4.855
					SD	-	-	0.230	0.402
					n	0	1	1	2
								2	2
K2000-015	13835	K#224	25		BDL	0.041	0.195	0.430	4.771
K2000-017	13837	K#224	25		BDL	0.011	0.128	0.443	4.548
		K#224	25	2	Mean	-	0.026	0.162	0.437
					SD	-	0.021	0.048	0.009
					n	0	2	2	0.157
								2	2
K2000-022	13851	K#234	10		BDL	0.011	BDL	2.765	8.455
K2000-023	23	K#234	10		BDL	0.037	BDL	3.403	12.352
		K#234	10	2	Mean	-	0.024	-	3.084
					SD	-	0.018	-	10.404
					n	0	2	0	0.451
								2	2.756
K2000-022	13851	K#234	25		BDL	0.011	BDL	0.494	4.994
K2000-023	13852	K#234	25		BDL	0.009	0.069	0.425	4.715
K2000-024	13853	K#234	25		BDL	0.055	0.069	0.547	4.816
K2000-025	13854	K#234	25		BDL	0.035	0.098	0.352	5.601
		K#234	25	4	Mean	-	0.027	0.079	0.455
					SD	-	0.022	0.017	5.031
					n	0	4	3	0.397
								4	4

Continued

**Table 8-9A.** Continued.

Sample ID	Field ID	Box ID	Days post-hatch	N	As	Cd	Pb	Cu	Zn
					μg/g	μg/g	μg/g	μg/g	μg/g
K2000-026	13855	K#235	10		BDL	0.006	BDL	1.083	6.289
K2000-028	13857	K#235	10		BDL	0.007	BDL	0.898	6.573
K2000-029	13858	K#235	10		BDL	0.007	BDL	1.194	6.747
		K#235	10	3	Mean	-	0.007	-	1.058
					SD	-	0.001	-	0.149
				n	0	3	0	3	0.231
K2000-026	13855	K#235	25		BDL	0.007	0.094	0.375	4.641
K2000-027	13856	K#235	25		BDL	0.286	0.140	0.687	5.918
K2000-028	13857	K#235	25		BDL	BDL	0.095	0.368	5.122
K2000-029	13858	K#235	25		BDL	0.009	0.141	0.478	4.788
		K#235	25	4	Mean	-	0.101	0.117	0.477
					SD	-	0.160	0.027	0.149
				n	0	3	4	4	0.570
K2000-039	13838	K#243	17		0.327	0.212	BDL	1.838	12.462
K2000-040	13839	K#243	17		BDL	0.180	BDL	0.629	6.813
K2000-041	13840	K#243	17		BDL	0.032	BDL	1.126	7.218
K2000-042	13841	K#243	17		BDL	0.257	BDL	5.804	10.528
K2000-043	13842	K#243	17		0.073	0.060	BDL	2.680	7.684
		K#243	17	5	Mean	0.200	0.148	-	2.415
					SD	0.179	0.098	-	2.046
				n	2	5	0	5	2.449
K2000-039	13838	K#243	25		BDL	0.023	0.136	0.589	4.843
K2000-042	13841	K#243	25		BDL	0.005	0.105	0.517	3.927
K2000-043	13842	K#243	25		BDL	0.030	0.104	0.308	4.135
		K#243	25	3	Mean	-	0.019	0.115	0.471
					SD	-	0.013	0.018	0.146
				n	0	3	3	3	0.480
K2000-044	13859	K#246	10		BDL	0.019	0.219	0.726	5.734
K2000-045	13860	K#246	10		0.127	0.020	0.113	0.356	5.787
K2000-046	13861	K#246	10		0.141	0.012	0.191	0.795	6.443
K2000-047	13862	K#246	10		BDL	0.018	0.118	0.339	5.302
		K#246	10	4	Mean	0.134	0.017	0.161	0.554
					SD	0.010	0.003	0.053	0.240
				n	2	4	4	4	0.471

Continued

**Table 8-9A.** Continued.

Sample ID	Field ID	Box ID	Days post-hatch	N	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g
K2000-044	13859	K#246	25		BDL	0.027	0.163	0.558	4.880
K2000-046	13861	K#246	25		BDL	0.049	0.202	0.643	5.089
K2000-047	13862	K#246	25		BDL	0.034	0.105	0.808	5.154
		K#246	25	3	Mean SD n	- 0.011 3	0.037 0.049 3	0.157 0.127 3	0.670 0.143 3
K2000-048	13831	K#250	10		BDL	0.004	BDL	1.492	5.848
K2000-049	13832	K#250	10		BDL	0.006	BDL	0.915	6.063
K2000-050	13833	K#250	10		BDL	0.004	BDL	0.483	5.418
K2000-051	13834	K#250	10		BDL	0.005	BDL	0.875	6.411
		K#250	10	4	Mean SD n	- 0.001 0	0.005 0.001 4	- 0 0	0.941 0.416 4
K2000-049	13832	K#250	25		BDL	0.015	0.045	0.503	4.177
K2000-050	13833	K#250	25		BDL	0.029	0.067	0.887	5.138
K2000-051	13834	K#250	25		BDL	0.014	0.052	1.024	4.609
		K#250	25	3	Mean SD n	- 0.008 0	0.019 0.008 3	0.055 0.011 3	0.804 0.270 3
									4.641 0.481 3

**Table 8-10A.** Liver metal and As concentrations from American kestrel nestlings. Anaconda Smelter Site, 1999. BDL is below detection limit.

Sample ID	Kestrel Box No.	Chick	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g
K1999-22	K#19	A	BDL	BDL	0.541	38.513	26.692
K1999-23	K#19	B	BDL	BDL	0.637	56.850	27.904
K1999-24	K#19	C	BDL	BDL	0.553	25.333	24.097
K1999-25	K#19	D	BDL	BDL	0.568	26.380	21.912
Box K#19		Mean	-	-	0.575	36.769	25.151
Intra-Clutch		SD	-	-	0.043	14.663	2.681
N=4		n	0	0	4	4	4
<u>Smelter Hill Associated Sites</u>							
K1999-02	K#01	A	BDL	0.158	0.515	22.011	26.273
K1999-10	K#07	C	BDL	BDL	0.579	37.976	22.857
K1999-15	K#13	C	BDL	0.097	0.479	23.720	23.173
K1999-19	K#14	B	BDL	0.106	0.684	44.923	32.580
	K#19	Mean	BDL	BDL	0.575	36.769	25.151
K1999-28	K#27	B	BDL	BDL	0.732	69.783	32.250
<u>Opportunity Pond Associated Sites</u>							
K1999-34	K#28	C	BDL	BDL	0.542	23.133	25.887
K1999-39	K#30	D	BDL	BDL	0.395	9.873	21.125
K1999-44	K#35	C	BDL	BDL	0.549	17.260	25.080
K1999-46	K#39	A	BDL	BDL	0.468	23.071	23.306
K1999-54	K#43	A	BDL	BDL	0.458	7.376	28.248
K1999-61	K#44	C	BDL	BDL	0.352	8.788	23.976
K1999-64	K#45	B	BDL	BDL	BDL	12.922	28.848
K1999-67	K#49	B	BDL	BDL	0.376	12.484	24.976
All Sites		Mean	-	0.120	0.516	25.006	25.981
		SD	-	0.033	0.113	17.302	3.411
		n	0	3	13	14	14
Smelter Hill Sites		Mean	-	0.120	0.594	39.197	27.047
		SD	-	0.033	0.097	17.382	4.346
		n	0	3	6	6	6
Opportunity Pond Sites		Mean	-	-	0.448	14.363	25.181
		SD	-	-	0.078	6.174	2.531
		n	0	0	7	8	8

**Table 8-11A.** Kidney metal and As concentrations from American kestrel nestlings.  
Anaconda Smelter Site, 1999. BDL is below detection limit.

Sample ID	Kestrel Box No.	Chick	As $\mu\text{g/g}$	Cd $\mu\text{g/g}$	Pb $\mu\text{g/g}$	Cu $\mu\text{g/g}$	Zn $\mu\text{g/g}$
K1999-22	K#19	A	BDL	BDL	BDL	3.83	15.43
K1999-24	K#19	C	BDL	0.09	BDL	3.14	15.86
K1999-25	K#19	D	BDL	0.12	BDL	3.83	17.20
	Box K#19	Mean	-	0.106	-	3.60	16.17
	Intra-Clutch	SD	-	0.015	-	0.397	0.925
	N=3	n	0	2	0	3	3
<u>Smelter Hill Associated Sites</u>							
K1999-02	K#01	A	BDL	0.387	BDL	5.20	21.56
K1999-15	K#13	C	BDL	0.128	BDL	3.19	15.48
K1999-19	K#14	B	BDL	0.109	BDL	6.15	16.82
	K#19	Mean	BDL	0.106	BDL	3.60	16.17
K1999-28	K#27	B	BDL	BDL	BDL	3.18	17.78
<u>Opportunity Pond Associated Sites</u>							
K1999-34	K#28	C	BDL	BDL	BDL	3.04	15.16
K1999-39	K#30	D	BDL	BDL	BDL	3.36	15.68
K1999-44	K#35	C	BDL	BDL	BDL	3.63	15.43
K1999-46	K#39	A	BDL	BDL	BDL	3.19	16.94
K1999-54	K#43	A	BDL	BDL	BDL	3.65	19.52
K1999-61	K#44	C	BDL	BDL	BDL	3.10	16.38
K1999-64	K#45	B	BDL	BDL	BDL	3.45	15.30
K1999-67	K#49	B	BDL	BDL	BDL	3.04	14.93
All Sites		Mean	-	0.182	-	3.68	16.70
		SD	-	0.137	-	0.934	1.93
		n	0	4	0	13	13
Smelter Hill Sites		Mean	-	0.182	-	4.27	17.56
		SD	-	0.137	-	1.34	2.39
		n	0	4	0	5	5
Opportunity Pond Sites		Mean	-	-	-	3.31	16.17
		SD	-	-	-	0.252	1.51
		n	0	0	0	8	8

**Table 8-12A.** Liver porphyrins from American Kestrels. Anaconda Smelter Site, 1999.

SampleID	Box No.	Chick	N	Carboxyl Porphyrins		
				4 pmol/g	2 pmol/g	Total pmol/g
K1999-22	K#19	A		30.756	19.512	64.863
K1999-23	K#19	B		26.076	10.713	49.519
K1999-24	K#19	C		31.018	9.406	56.336
K1999-25	K#19	D		33.060	18.633	50.216
Intra-Clutch		K#19	4	Mean SD n	30.227 2.953 4	14.566 5.243 4
						55.233 7.113 4
K1999-02	K#01	A		25.232	8.377	39.823
K1999-10	K#07	C		31.598	13.062	44.661
K1999-15	K#13	C		16.001	9.270	32.633
K1999-19	K#14	B		35.596	20.291	67.313
	K#19		4	Mean	30.227	14.566
K1999-28	K#27	B			25.450	12.872
						47.581
K1999-34	K#28	C		14.746	10.205	30.457
K1999-39	K#30	D		23.387	12.865	47.387
K1999-44	K#35	C		21.335	8.906	36.223
K1999-46	K#39	A		40.647	25.098	80.373
K1999-54	K#43	A		24.552	18.273	53.714
K1999-61	K#44	C		13.528	13.979	46.034
K1999-64	K#45	B		22.450	12.652	43.039
K1999-67	K#49	B		21.028	12.170	41.295
All Sites			14	Mean SD n	24.698 7.762 14	13.756 4.669 14
						47.555 13.410 14
Smelter Hill Sites			6	Mean SD n	27.351 6.800 6	13.073 4.263 6
						47.874 12.162 6
Opportunity Pond Sites			8	Mean SD n	22.709 8.264 8	14.269 5.177 8
						47.315 15.105 8

**Table 8-13A.** Kidney porphyrins from American Kestrels. Anaconda Smelter Site, 1999.  
ND is not detected.

SampleID	Box No.	Chick	N	Carboxyl Porphyrins		
				4 pmol/g	2 pmol/g	Total pmol/g
K1999-22	K#19	A		20.384		30.375
K1999-23	K#19	B		23.894	10.377	43.514
K1999-24	K#19	C		23.452		32.652
K1999-25	K#19	D		25.064	14.328	39.392
Intra-Clutch		K#19	4	Mean	23.199	12.353
				SD	1.996	2.793
				n	4	6.052
					2	4
K1999-02	K#01	A		31.434	8.895	67.727
K1999-10	K#07	C		26.464	7.907	43.663
K1999-15	K#13	C		28.353	7.870	44.761
K1999-19	K#14	B		20.560	8.768	38.277
All Sites		K#19	4	Mean	23.199	12.353
					21.153	36.483
					8.930	30.082
K1999-34	K#28	C		22.600		28.757
K1999-39	K#30	D		29.630	10.594	40.224
K1999-44	K#35	C		21.317	9.786	61.256
K1999-46	K#39	A		22.091	13.702	63.166
K1999-54	K#43	A		64.916	18.078	92.847
K1999-61	K#44	C		26.962	7.738	42.689
K1999-64	K#45	B		25.316	12.278	60.040
K1999-67	K#49	B		21.885	6.606	37.453
Smelter Hill Sites		14		Mean	27.563	10.269
				SD	11.289	3.143
				n	14	13
						14
Opportunity Pond Sites		6		Mean	25.194	9.120
				SD	4.297	1.655
				n	6	6
						6

**Table 8-14A.** ALAD and Packed Cell Volume on a Box Mean Basis, Anaconda Smelter Site 2000.

Box ID	Field ID	Day	PCV	ALAD
K#201	13847	10	38	144.25
K#201	13848	10	35	126.25
K#201		Mean	36.50	135.25
		SD	2.1	12.7
		n	2	2
		SE	1.5	9
K#217	13843	10	37	102.5
K#217	13844	10	30	115.16
K#217	13845	10	37	125.55
K#217		Mean	34.67	114.40
		SD	4.0	11.5
		n	3	3
		SE	2.3	6.7
K#224	13835	10	NC	NC
<b>Smelter Hill</b>		Mean	35.58	124.83
		SD	1.3	14.7
		n	2	2
K#234	13851	10	37	119.42
K#234	13852	10	35	118.95
K#234		Mean	36.00	119.19
		SD	1.4	0.3
		n	2	2
		SE	1	0.2
K#235	13855	10	38	121.37
K#235	13856	10	42	147.72
K#235	13857	10	37	112.15
K#235	13858	10	43	152.19
K#235		Mean	40.00	133.36
		SD	2.9	19.6
		n	4	4
		SE	1.5	9.8

Continued

**Table 8-14A.** Continued

Box ID	Field ID	Day	PCV	ALAD
K#246	13859	10	35	152.92
K#246	13860	10	37	165.55
K#246	13861	10	36	129.53
K#246	13862	10	35	
K#246		Mean	35.75	149.33
		SD	1.0	18.3
		n	4	3
		SE	0.5	10.6
K#250	13831	10	35	134.5
K#250	13832	10	31	
K#250	13833	10	31	124.09
K#250	13834	10	31	129.93
K#250		Mean	32.0	129.51
		SD	2.0	5.2
		n	4	3
		SE	1.0	3.0
Opp. Ponds		Mean	35.94	132.85
		SD	3.3	12.5
		n	4	4
K#201	13847	17	31	
K#201	13849	17	30	124.7
K#201	13850	17	44	114.56
K#201		Mean	35.00	119.63
		SD	7.8	7.2
		n	3	2
		SE	4.5	5.1
K#217	13845	17	40	128.19
K#217	13846	17	34	118.41
K#217		Mean	37.00	123.30
		SD	4.2	6.9
		n	2	2
		SE	3.0	4.9
K#224	13836	17	32	108.28
K#224	13837	17	37	95.89
K#224		Mean	34.50	102.09
		SD	3.5	8.8
		n	2	2
		SE	2.5	6.2

Continued.

**Table 8-14A.** Continued

Box ID	Field ID	Day	PCV	ALAD
<b>Smelter Hill</b>				
		Mean	35.50	115.01
		SD	1.3	11.3
		n	3	3
K#243	13838	17	40	113.05
K#243	13839	17	35	113.43
K#243	13840	17	36	121.2
K#243	13841	17	37	
K#243	13842	17	33	128.99
K#243		Mean	36.20	119.17
		SD	2.6	7.5
		n	5	4
		SE	1.2	3.8
<b>Opp. Ponds</b>		Mean	36.20	119.17
		SD		
		n	1	1
K#201	13847	25	38	102.13
K#201	13850	25	41	91.54
K#201		Mean	39.50	96.85
		SD	2.1	7.5
		n	2	2
		SE	1.5	5.3
K#217	13843	25	35	
K#217	13844	25	33	87.39
K#217	13846	25	34	91.81
K#217		Mean	34.00	89.60
		SD	1.0	3.1
		n	3	2
		SE	0.6	2.2
K#224	13835	25	38	88.94
K#224	13837	25	43	81.51
K#224		Mean	40.50	85.23
		SD	3.5	5.3
		n	2	2
		SE	2.5	3.7
<b>Smelter Hill</b>		Mean	38.00	90.55
		SD	3.5	5.9
		n	3	3

Continued

**Table 8-14A.** Continued

Box ID	Field ID	Day	PCV	ALAD
K#234	13851	25	38	123.45
K#234	13852	25	35	126.87
K#234	13853	25	30	149.48
K#234	13854	25	35	137.4
K#234		Mean	34.50	134.30
		SD	3.3	11.7
		n	4	4
		SE	1.7	5.9
K#235	13855	25	36	101.36
K#235	13856	25	43	109.77
K#235	13857	25	43	
K#235	13858	25	40	127.99
K#235		Mean	40.50	113.04
		SD	3.3	13.6
		n	4	3
		SE	1.7	7.9
K#243	13838	25	31	125.59
K#243	13840	25	37	140.02
K#243	13841	25	34	118.09
K#243	13842	25	37	98.94
K#243		Mean	34.75	120.66
		SD	2.9	17.1
		n	4	4
		SE	1.4	8.5
K#246	13859	25	38	118.32
K#246	13861	25		
K#246	13862	25	34	143.92
K#246		Mean	36.00	131.12
		SD	2.8	18.1
		n	2	2
		SE	2.0	12.8
K#250	13832	25	35	101.83
K#250	13833	25	37	120.73
K#250	13834	25	36	105.44
K#250		Mean	36.00	109.33
		SD	1.0	10.0
		n	3	3
		SE	0.6	5.8
Opp. Ponds		Mean	36.35	121.69
		SD	2.4	10.9
		n	5	5

**Table 8-15A.** Kestrel Nestling Hematology, Anaconda Smelter Site, 1999.

Kestrel Box No.	Chick	WBC (1) (cells/ml)	WBC (2) (cells/ml)	WBC (mean) (cells/ml)	RBC (1) (cells/ml)	RBC (2) (cells/ml)
K#19	A	3429	1929	2679		5085714
K#19	B	3778	3111	3445		5333333
K#19	C	3667	2889	3278		6000000
K#19	D	3222	2889	3056		5266667
K#19	Mean	3524	2704	3115		5421429
	SD	248	528	331		399650
	n	4	4	4	0	4
K#01	A	8813	8688	8750		7912500
K#07	C	4063	3250	3657		4512500
K#13	C	4500	4750	4625		7312500
K#14	B	6563	6063	6313		7775000
K#19	Mean	3524	2704	3115		5421429
K#27	B	4222	3222	3722		6211111
Smelter	Mean	5281	4780	5030		6526786
	SD	2021	2280	2041		1376543
	n	6	6	6	0	6
K#28	C	9278	7722	8500		6888889
K#30	D	5778	5167	5473		5566667
K#35	C	4875	5000	4938		6375000
K#39	A	6222	4667	5445		5766667
K#43	A	21750	25438	23594	1825000	2237500
K#44	C	12313	13063	12688		6575000
K#45	B	2611	3167	2889		5711111
K#49	B	4333	3944	4139		7177778
Opp Ponds	Mean	8395	8521	8458	1825000	5777327
	SD	6192	7517	6835		1617753
	n	8	8	8	1	8
All Sites	Mean	7060	6917	6989	1825000	6193118
	SD	4977	6010	5479		1510339
	n	14	14	14	1	14

**Table 8-16A.** Tissue Weights from American kestrel nestlings. Anaconda Smelter Site, 1999. N is the total number of chicks measured while n is the number positive for the endpoint. NC is not collected.

SampleID	BoxID	N	Chick	Kidney (grams)	Liver (grams)	Brain (grams)	Spleen (grams)	Bursa (grams)
K1999-22	K#19		A	1.370	3.802	2.106	0.087	0.226
K1999-23	K#19		B	NC	3.934	2.118	0.138	0.402
K1999-24	K#19		C	1.522	3.677	2.230	0.151	0.387
K1999-25			D	1.248	3.917	2.393	0.128	0.291
	K#19	4	Mean	1.380	3.833	2.212	0.126	0.327
			SD	0.138	0.119	0.133	0.028	0.083
			n	3	4	4	4	4
<u>Smelter Associated Sites</u>								
K1999-02	K#01		A	1.245	4.417	2.362	0.303	0.453
K1999-10	K#07		C	NC	5.071	2.327	0.362	0.459
K1999-15	K#13		C	1.795	4.466	2.515	0.192	0.387
K1999-19	K#14		B	1.415	3.504	2.204	0.196	0.346
	K#19		Mean	1.380	3.833	2.212	0.126	0.327
K1999-28	K#27		B	1.144	3.215	2.264	0.133	0.422
<u>Opportunity Pond Associated Sites</u>								
K1999-34	K#28		C	1.693	5.094	2.294	0.272	0.228
K1999-39	K#30		D	1.382	4.403	2.312	0.183	0.349
K1999-44	K#35		C	1.380	3.816	2.283	0.150	0.393
K1999-46	K#39		A	1.204	4.326	2.464	0.160	0.401
K1999-54	K#43		A	1.675	4.762	2.261	0.724	0.286
K1999-61	K#44		C	1.790	4.987	2.323	0.461	0.573
K1999-64	K#45		B	1.549	5.317	1.924	0.265	NC
K1999-67	K#49		B	1.538	3.775	2.433	0.164	0.401
All Sites		14	Mean	1.476	4.356	2.298	0.264	0.386
			SD	0.217	0.650	0.141	0.164	0.086
			n	13	14	14	14	13
<u>Smelter Hill Sites</u>								
	Smelter	6	Mean	1.396	4.084	2.314	0.219	0.399
	Hill Sites		SD	0.248	0.691	0.117	0.095	0.055
			n	5	6	6	6	6
<u>Opportunity Pond Sites</u>								
	Opportunity	8	Mean	1.526	4.560	2.287	0.297	0.376
	Pond Sites		SD	0.195	0.577	0.164	0.201	0.109
			n	8	8	8	8	7

**Table 8-17A.** Demographic parameters for American kestrels nesting at the Anaconda Smelter Site, 1999 and 2000.

Focus of Statistic	Statistic	1999	2000
Nest Box Statistics			
Nest boxes available		50	49
Initiated kestrel clutches		19	14
Percent occupancy		38.0% (19/50)	28.6% (14/49)
Egg Statistics			
Total eggs laid		72	58
Number of eggs/ initiated clutch (mean ± s.d.)		3.79 ± 1.32 N=19	4.14 ± 0.66 N=14
Eggs removed for chemical analysis		17	0
Eggs missing from nest during incubation		2	5
Eggs reaching hatch age		53	53
Eggs abandoned		5	13
Eggs un-hatched		5	6
Eggs hatched		43	34
Hatching success		81.1% (43/53)	64.2% (34/53)
Successful nests (nests with live nestling)		14	9
Initiated clutches (corrected for removed clutch)		18	14
Nesting success (successful nests/clutches initiated)		77.8% (14/18)	64.3% (9/14)
Nestling Statistics			
Nestlings		43	34
Missing/dead nestlings		2	2
Fledglings (survival to 25 days post hatch)		41	32
Fledging efficiency (fledglings/nestlings)		95.3% (41/43)	94.1% (32/34)
Nestlings collected for analysis		17	0
Actual number of fledged nestlings		24	32
General Statistics			
Number of eggs/successful nest (mean ± s.d.)		4.43 ± 0.51 N=14	3.78 ± 0.83 N=9
Number of chicks/successful nest (mean ± s.d.)		3.07 ± 0.83 N=14	3.78 ± 0.83 N=9
Nesting efficiency (fledglings/eggs at hatch)		77.4% (41/53)	60.4% (32/53)

**Table 8-18A.** Body weight and morphological measurements of American kestrel nestlings recorded at time of collection (25 days post hatch). Anaconda Smelter Site, 1999. N is the total number of chicks measured while n is the number positive for the endpoint.

Sample ID	Kestrel BoxNo.	Chick ID	Weight (gram)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)
K1999-22	K#19	A	103.24	37.62	17.11	9.87	5.53
K1999-23	K#19	B	114.13	37.89	17.15	9.92	5.27
K1999-24	K#19	C	121.62	38.89	16.96	10.50	5.32
K1999-25	K#19	D	102.76	38.16	17.45	9.89	5.50
Box K#19		Mean	110.44	38.14	17.17	10.05	5.41
Intra-Clutch		SD	9.12	0.546	0.205	0.304	0.129
N=4		n	4	4	4	4	4
<u>Smelter Hill Associated Ponds</u>							
K1999-02	K#01	A	116.67	42.04	19.86	10.91	5.66
K1999-10	K#07	C	114.20	39.92	18.63	10.21	5.56
K1999-15	K#13	C	132.51	40.67	17.57	11.36	5.72
K1999-19	K#14	B	109.26	38.58	18.46	10.25	5.85
	K#19	Mean	110.44	38.14	17.17	10.05	5.41
K1999-28	K#27	B	107.56	42.58	18.29	10.90	5.55
<u>Opportunity Pond Associated Site</u>							
K1999-34	K#28	C	128.76	41.56	18.22	10.21	5.55
K1999-39	K#30	D	125.40	41.27	17.71	9.84	5.50
K1999-44	K#35	C	119.11	43.76	18.87	10.70	5.60
K1999-46	K#39	A	119.30	43.27	18.35	10.11	5.36
K1999-54	K#43	A	114.99	41.96	17.65	9.79	5.39
K1999-61	K#44	C	126.69	38.48	18.01	10.21	6.12
K1999-64	K#45	B	114.85	39.69	17.00	10.10	5.29
K1999-67	K#49	B	109.90	44.76	18.94	10.14	5.91
All Sites		Mean	117.83	41.19	18.20	10.34	5.60
		SD	7.86	2.05	0.760	0.452	0.232
		n	14	14	14	14	14
Smelter Hill Sites		Mean	115.11	40.32	18.33	10.61	5.62
		SD	9.16	1.80	0.936	0.519	0.154
		n	6	6	6	6	6
Opportunity Pond Sites		Mean	119.88	41.84	18.09	10.14	5.59
		SD	6.61	2.09	0.649	0.277	0.287
		n	8	8	8	8	8

**Table 8-19A.** Body weight and morphological measurements of American kestrel nestlings recorded on days 5, 10, 15, 20, and 25 post-hatch. Anaconda Smelter Site, 2000.

SampleID	BoxID	FieldID	Day Measured	N			Weight	Tarsus	ThirdToe	Culmen	BillWidth
					(grams)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
K2000-001	K#201	13847	5		29	20.72	8.22	8.05	5.12		
K2000-002	K#201	13848	5		28	21.29	8.64	7.5	4.9		
K2000-003	K#201	13849	5		33	21.63	8.78	7.7	4.76		
K2000-004	K#201	13850	5		15.5	16.38	6.31	6.78	4.76		
K#201			Day	5	4	Mean	26.38	20.01	7.99	7.51	4.89
						SD	7.56	2.45	1.14	0.54	0.17
						n	4	4	4	4	4
K2000-001	K#201	13847	10		80	34.01	14.91	9.4	5.94		
K2000-002	K#201	13848	10		78	34.9	16.44	8.94	5.89		
K2000-003	K#201	13849	10		86	35.18	15.11	8.81	6.05		
K2000-004	K#201	13850	10		50	29.03	13.51	8.4	5.61		
K#201			Day	10	4	Mean	73.50	33.28	14.99	8.89	5.87
						SD	16.03	2.88	1.20	0.41	0.19
						n	4	4	4	4	4
K2000-001	K#201	13847	15		125	42.38	18	10.14	6.56		
K2000-002	K#201	13848	15		117	42.11	18.15	10.33	6.49		
K2000-003	K#201	13849	15		119	43.47	18.04	9.83	6.15		
K2000-004	K#201	13850	15		103	39.27	16.74	9.59	6.76		
K#201			Day	15	4	Mean	116.00	41.81	17.73	9.97	6.49
						SD	9.31	1.79	0.66	0.33	0.25
						n	4	4	4	4	4
K2000-001	K#201	13847	20		137	43.32	17.56	10.7	5.84		
K2000-002	K#201	13848	20		125	43.2	17.9	10.8	6		
K2000-003	K#201	13849	20		129	44.56	18.32	10.46	5.64		
K2000-004	K#201	13850	20		119	42.38	18.54	10	5.8		
K#201			Day	20	4	Mean	127.50	43.37	18.08	10.49	5.82
						SD	7.55	0.90	0.44	0.36	0.15
						n	4	4	4	4	4

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N			Weight (grams)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)
					Mean	SD	n	4	4	4	4
K2000-001	K#201	13847	25		138	43.79		19.03		10.81	5.74
K2000-002	K#201	13848	25		119	43.31		18.09		10.52	6.13
K2000-003	K#201	13849	25		127	43.92		17.96		10.39	5.69
K2000-004	K#201	13850	25		121	42.3		19.37		10.21	6.02
K#201		Day	25	4	Mean	126.25	43.33	18.61	10.48	5.90	
					SD	8.54	0.74	0.69	0.25	0.21	
					n	4	4	4	4	4	
K2000-007	K#217	13843	5		48	27.12		12.81		8.01	5.55
K2000-008	K#217	13844	5		51	28.14		12.88		8.36	5.34
K2000-009	K#217	13845	5		51	26.99		12.84		8.26	5.4
K2000-010	K#217	13846	5		52	28.11		12.68		8.18	5.58
K#217		Day	5	4	Mean	50.50	27.59	12.80	8.20	5.47	
					SD	1.73	0.62	0.09	0.15	0.12	
					n	4	4	4	4	4	
K2000-007	K#217	13843	10		97	38.16		16.83		9.09	5.93
K2000-008	K#217	13844	10		101	38.15		16.4		9.54	6.07
K2000-009	K#217	13845	10		101	39.22		16.23		9.35	6.01
K2000-010	K#217	13846	10		99	38.93		16.9		8.88	6.06
K#217		Day	10	4	Mean	99.50	38.62	16.59	9.22	6.02	
					SD	1.91	0.54	0.33	0.29	0.06	
					n	4	4	4	4	4	
K2000-007	K#217	13843	15		121	42.73		18.79		10.05	6.02
K2000-008	K#217	13844	15		123	42.31		19.54		10.28	6.18
K2000-009	K#217	13845	15		126	42.93		18.98		9.9	6.02
K2000-010	K#217	13846	15		113	41.38		19.12		9.7	5.95
K#217		Day	15	4	Mean	120.75	42.34	19.11	9.98	6.04	
					SD	5.56	0.69	0.32	0.24	0.10	
					n	4	4	4	4	4	

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N			Weight (grams)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)
					Mean	SD	n	4	4	4	4
K2000-007	K#217	13843	20		128	38.18	18.75	10.81	5.81		
K2000-008	K#217	13844	20		137	42.12	20.35	10.75	5.83		
K2000-009	K#217	13845	20		138	40.25	18.84	10.46	6.02		
K2000-010	K#217	13846	20		128	40.41	18.32	10.39	5.87		
K#217		Day	20	4	Mean	132.75	40.24	19.07	10.60	5.88	
					SD	5.50	1.61	0.89	0.21	0.09	
					n	4	4	4	4	4	
K2000-007	K#217	13843	25		121	41.87	18.9	10.5	5.95		
K2000-008	K#217	13844	25		137	42.43	19.11	11.63	5.9		
K2000-009	K#217	13845	25		131	42.75	19.56	10.87	5.96		
K2000-010	K#217	13846	25		117	40.63	18.83	10.47	6.06		
K#217			25	4	Mean	126.50	41.92	19.10	10.87	5.97	
					SD	9.15	0.93	0.33	0.54	0.07	
					n	4	4	4	4	4	
K2000-015	K#224	13835	5		47	25.27	12.88	7.96	5.61		
K2000-016	K#224	13836	5		36	21.69	10.13	7.04	5.2		
K2000-017	K#224	13837	5		43	23.7	12.21	7.73	5.15		
K#224		Day	5	3	Mean	42.00	23.55	11.74	7.58	5.32	
					SD	5.57	1.79	1.43	0.48	0.25	
					n	3	3	3	3	3	
K2000-015	K#224	13835	10		90	36.99	16.7	9.1	6.03		
K2000-016	K#224	13836	10		84	33.27	14.44	8.44	6.16		
K2000-017	K#224	13837	10		86	36.01	14.41	9.23	5.7		
K#224		Day	10	3	Mean	86.67	35.42	15.18	8.92	5.96	
					SD	3.06	1.93	1.31	0.42	0.24	
					n	3	3	3	3	3	

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N			Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)
					Weight (grams)					
K2000-015	K#224	13835	15		124	39.73	21.03	10.1	5.91	
K2000-016	K#224	13836	15		118	39.58	19.11	9.66	6.51	
K2000-017	K#224	13837	15		124	39.8	19.72	9.77	5.82	
K#224		Day	15	3	Mean	122.00	39.70	19.95	9.84	6.08
					SD	3.46	0.11	0.98	0.23	0.38
					n	3	3	3	3	3
K2000-015	K#224	13835	20		121	41.38	18.4	9.98	5.68	
K2000-016	K#224	13836	20		125	41.72	18.07	9.95	6.32	
K2000-017	K#224	13837	20		129	39.33	18.19	10.37	5.81	
K#224		Day	20	3	Mean	125.00	40.81	18.22	10.10	5.94
					SD	4.00	1.29	0.17	0.23	0.34
					n	3	3	3	3	3
K2000-015	K#224	13835	25		122	42.56	18.61	10.26	5.68	
K2000-016	K#224	13836	25		133	41	18.55	10.12	6.26	
K2000-017	K#224	13837	25		133	41.32	17.84	10.42	6.11	
K#224		Day	25	3	Mean	129.33	41.63	18.33	10.27	6.02
					SD	6.35	0.82	0.43	0.15	0.30
					n	3	3	3	3	3
K2000-071	K#232	noband1	5		39	21.66	9.53	7.72	4.75	
K2000-072	K#232	noband2	5		50	27.52	13.48	7.9	5.05	
K#232		Day	5	2	Mean	44.50	24.59	11.51	7.81	4.90
					SD	7.78	4.14	2.79	0.13	0.21
					n	2	2	2	2	2
K2000-022	K#234	13851	5		48	26.67	10.88	8.38	5.67	
K2000-023	K#234	13852	5		42	25.41	12.85	8.6	5.21	
K2000-024	K#234	13853	5		32	24.05	12.09	8.2	5.17	
K2000-025	K#234	13854	5		43	25.96	12.19	8.62	6.24	
K#234		Day	5	4	Mean	41.25	25.52	12.00	8.45	5.57
					SD	6.70	1.11	0.82	0.20	0.50
					n	4	4	4	4	4

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N						
					Weight (grams)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)	
K2000-022	K#234	13851	10		103	38.65	17.23	9.58	5.58	
K2000-023	K#234	13852	10		91	36.19	17.53	9.29	5.77	
K2000-024	K#234	13853	10		83	35.85	17.14	9.39	5.29	
K2000-025	K#234	13854	10		89	38.95	16.61	9.2	6.28	
K#234		Day	10	4	Mean	91.50	37.41	17.13	9.37	5.73
					SD	8.39	1.62	0.38	0.16	0.42
					n	4	4	4	4	4
K2000-022	K#234	13851	15		110	41.73	19.68	9.99	5.54	
K2000-023	K#234	13852	15		98	40.95	19.2	9.38	5.35	
K2000-024	K#234	13853	15		92	38.27	18.48	9.76	5.65	
K2000-025	K#234	13854	15		100	39.62	17.32	9.74	6.05	
K#234		Day	15	4	Mean	100.00	40.14	18.67	9.72	5.65
					SD	7.48	1.52	1.03	0.25	0.30
					n	4	4	4	4	4
K2000-022	K#234	13851	20		115	44.06	18.78	10.29	5.92	
K2000-023	K#234	13852	20		103	40.52	18.51	10.1	5.59	
K2000-024	K#234	13853	20		101	39.95	18.23	9.98	5.43	
K2000-025	K#234	13854	20		101	40.67	17.47	10.1	6.1	
K#234		Day	20	4	Mean	105.00	41.30	18.25	10.12	5.76
					SD	6.73	1.87	0.56	0.13	0.30
					n	4	4	4	4	4
K2000-022	K#234	13851	25		114	43.46	18.66	10.43	5.84	
K2000-023	K#234	13852	25		105	41.26	17.71	10.37	5.49	
K2000-024	K#234	13853	25		102	41.8	18.79	10.65	5.48	
K2000-025	K#234	13854	25		102	39.88	17.76	10.4	6.07	
K#234		Day	25	4	Mean	105.75	41.60	18.23	10.46	5.72
					SD	5.68	1.48	0.57	0.13	0.29
					n	4	4	4	4	4

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N						
					Weight (grams)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)	
K2000-026	K#235	13855	5		48	24.91	11.5	8.06	5.6	
K2000-027	K#235	13856	5		46	25.58	12.31	9.04	5.79	
K2000-028	K#235	13857	5		40	24.32	11.68	8.48	5.73	
K2000-029	K#235	13858	5		40	25.93	11.83	7.78	4.96	
K#235		Day	5	4	Mean	43.50	25.19	11.83	8.34	5.52
					SD	4.12	0.72	0.35	0.55	0.38
					n	4	4	4	4	4
K2000-026	K#235	13855	10		93	36.75	17.26	8.89	5.82	
K2000-027	K#235	13856	10		89	37.6	17.87	9.29	5.51	
K2000-028	K#235	13857	10		81	36.24	17.29	8.77	6.14	
K2000-029	K#235	13858	10		93	38.14	18.05	9.24	5.31	
K#235		Day	10	4	Mean	89.00	37.18	17.62	9.05	5.70
					SD	5.66	0.85	0.40	0.26	0.36
					n	4	4	4	4	4
K2000-026	K#235	13855	15		108	41.57	18.17	9.49	5.94	
K2000-027	K#235	13856	15		105	39.92	19.14	9.77	5.57	
K2000-028	K#235	13857	15		103	41.61	18.69	9.95	6	
K2000-029	K#235	13858	15		105	41.06	19.05	9.56	5.3	
K#235		Day	15	4	Mean	105.25	41.04	18.76	9.69	5.70
					SD	2.06	0.79	0.44	0.21	0.33
					n	4	4	4	4	4
K2000-026	K#235	13855	20		121	42.28	18.61	10.13	5.44	
K2000-027	K#235	13856	20		131	42.39	18.97	10.2	5.2	
K2000-028	K#235	13857	20		129	39.55	18.95	9.77	6.14	
K2000-029	K#235	13858	20		125	41.38	18.61	9.99	5.25	
K#235		Day	20	4	Mean	126.50	41.40	18.79	10.02	5.51
					SD	4.43	1.31	0.20	0.19	0.43
					n	4	4	4	4	4

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N			Weight (grams)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)
					Mean	SD	n	4	4	4	4
K2000-026	K#235	13855	25		111	42.52		17.9	10.24	5.72	
K2000-027	K#235	13856	25		119	42.26		18.88	10.34	5.24	
K2000-028	K#235	13857	25		117	42.7		18.06	9.96	5.74	
K2000-029	K#235	13858	25		115	42.68		17.9	10.3	5.32	
K#235		Day	25	4	Mean	115.50	42.54	18.19	10.21	5.51	
					SD	3.42	0.20	0.47	0.17	0.26	
					n	4	4	4	4	4	
K2000-039	K#243	13838	5		36	24.24		11.56	7.87	5.13	
K2000-040	K#243	13839	5		32	21.76		10.32	7.43	4.75	
K2000-041	K#243	13840	5		22	18.25		9.46	7.42	4.76	
K2000-042	K#243	13841	5		37	23.26		12.21	7.67	5.6	
K2000-043	K#243	13842	5		35	22.81		11.06	7.74	5.11	
K#243		Day	5	5	Mean	32.40	22.06	10.92	7.63	5.07	
					SD	6.11	2.31	1.07	0.20	0.35	
					n	5	5	5	5	5	
K2000-039	K#243	13838	10		79	36.26		16.35	9.12	5.89	
K2000-040	K#243	13839	10		79	34.45		16.74	8.49	5.81	
K2000-041	K#243	13840	10		63	30.25		13.71	8.61	5.64	
K2000-042	K#243	13841	10		79	34.72		15.76	9.08	5.79	
K2000-043	K#243	13842	10		79	35.6		15.44	9.55	5.72	
K#243		Day	10	5	Mean	75.80	34.26	15.60	8.97	5.77	
					SD	7.16	2.35	1.17	0.43	0.09	
					n	5	5	5	5	5	
K2000-039	K#243	13838	15		103	40.66		17.94	10.81	6.01	
K2000-040	K#243	13839	15		113	40.36		17.96	10.25	6.05	
K2000-041	K#243	13840	15		89	37.62		18.12	9.63	5.51	
K2000-042	K#243	13841	15		107	40.25		17.8	9.33	5.63	
K2000-043	K#243	13842	15		105	38.74		17.36	9.84	5.6	
K#243		Day		5	Mean	103.40	39.53	17.84	9.97	5.76	
					SD	8.88	1.30	0.29	0.58	0.25	
					n	5	5	5	5	5	

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N	Weight	Tarsus	ThirdToe	Culmen	BillWidth		
					(grams)	(mm)	(mm)	(mm)	(mm)		
K2000-039	K#243	13838	20		114	40.55	18.14	10.37	5.62		
K2000-040	K#243	13839	20		126	40.9	18.91	10.39	5.97		
K2000-041	K#243	13840	20		108	40.52	18.74	9.97	5.57		
K2000-042	K#243	13841	20		114	40.72	18.64	9.71	5.66		
K2000-043	K#243	13842	20		116	37.58	18.54	10.51	5.66		
K#243		Day		5	Mean	115.60	40.05	18.59	10.19	5.70	
					SD	6.54	1.39	0.29	0.34	0.16	
					n	5	5	5	5	5	
K2000-039	K#243	13838	25		117	38.96	19.08	10.8	5.92		
K2000-040	K#243	13839	25		139	41.08	19.18	10.47	5.98		
K2000-041	K#243	13840	25		129	41.1	18.27	10.19	5.67		
K2000-042	K#243	13841	25		117	41	17.97	9.82	6.23		
K2000-043	K#243	13842	25		131	42.07	18.17	10.88	6.17		
K#243		Day		25	5	Mean	126.60	40.84	18.53	10.43	5.99
						SD	9.53	1.14	0.56	0.44	0.22
						n	5	5	5	5	5
K2000-044	K#246	13859	5		47	26.45	13.16	8.34	5.18		
K2000-045	K#246	13860	5		44	26.31	12.62	8.27	5.25		
K2000-046	K#246	13861	5		50	27.65	13.66	8.76	5.96		
K2000-047	K#246	13862	5		38	24.42	11.6	7.65	5.09		
K#246		Day		5	4	Mean	44.75	26.21	12.76	8.26	5.37
						SD	5.12	1.33	0.88	0.46	0.40
						n	4	4	4	4	4
K2000-044	K#246	13859	10		82	36.9	18.02	9.14	5.8		
K2000-045	K#246	13860	10		89	37.01	16.7	9.46	5.8		
K2000-046	K#246	13861	10		91	40.2	18.54	9.55	6.33		
K2000-047	K#246	13862	10		75	36.24	17.84	9.29	5.62		
K#246		Day		10	4	Mean	84.25	37.59	17.78	9.36	5.89
						SD	7.27	1.77	0.78	0.18	0.31
						n	4	4	4	4	4

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N			Weight (grams)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)
					Mean	SD	n	4	4	4	4
K2000-044	K#246	13859	15		103	40.92	18.08	10.1	5.5		
K2000-045	K#246	13860	15		109	40.88	18.34	9.98	5.68		
K2000-046	K#246	13861	15		111	42.64	19.92	10.1	6.24		
K2000-047	K#246	13862	15		99	39.76	19.72	9.6	5.52		
K#246		Day	15	4	Mean	105.50	41.05	19.02	9.95	5.74	
					SD	5.51	1.19	0.94	0.24	0.35	
					n	4	4	4	4	4	
K2000-044	K#246	13859	20		99	40.08	17.96	10.36	5.58		
K2000-045	K#246	13860	20		115	41.9	17.9	10.5	5.56		
K2000-046	K#246	13861	20		115	43.1	19.14	10.38	6.18		
K2000-047	K#246	13862	20		101	42.32	18.4	9.76	5.5		
K#246		Day	20	4	Mean	107.50	41.85	18.35	10.25	5.71	
					SD	8.70	1.28	0.57	0.33	0.32	
					n	4	4	4	4	4	
K2000-044	K#246	13859	25		107	38.61	17.07	10.39	5.6		
K2000-045	K#246	13860	25		129	41.71	17.57	10.78	6.17		
K2000-046	K#246	13861	25		125	43.19	19.05	11	6.02		
K2000-047	K#246	13862	25		119	40.21	19.06	10.77	5.45		
K#246		Day	25	4	Mean	120.00	40.93	18.19	10.74	5.81	
					SD	9.59	1.97	1.02	0.25	0.34	
					n	4	4	4	4	4	
K2000-048	K#250	13831	5		39	24.27	12.71	7.76	5.44		
K2000-049	K#250	13832	5		33	22.38	11.05	7.52	5.27		
K2000-050	K#250	13833	5		37	24.26	12.04	7.46	5.08		
K2000-051	K#250	13834	5		37	22.3	11.4	7.46	4.98		
K#250		Day	5	4	Mean	36.50	23.30	11.80	7.55	5.19	
					SD	2.52	1.11	0.73	0.14	0.20	
					n	4	4	4	4	4	

Continued

**Table 8-19A.** Continued

SampleID	BoxID	FieldID	Day Measured	N			Weight (grams)	Tarsus (mm)	ThirdToe (mm)	Culmen (mm)	BillWidth (mm)
					Mean	SD	n	4	4	4	4
K2000-048	K#250	13831	10		92	36.26	16.2	8.9	6.36		
K2000-049	K#250	13832	10		82	35.5	15.57	9.03	6.22		
K2000-050	K#250	13833	10		84	35.72	14	8.34	5.9		
K2000-051	K#250	13834	10		82	35.3	15.84	9.05	5.99		
K#250		Day	10	4	Mean	85.00	35.70	15.40	8.83	6.12	
					SD	4.76	0.41	0.97	0.33	0.21	
					n	4	4	4	4	4	
K2000-048	K#250	13831	15		98	36.69	17.63	9.66	6.05		
K2000-049	K#250	13832	15		94	36.17	16.88	10.13	6.08		
K2000-050	K#250	13833	15		96	39.27	14.85	9.36	7.02		
K2000-051	K#250	13834	15		104	37.16	19.97	9.95	5.78		
K#250		Day	15	4	Mean	98.00	37.32	17.33	9.78	6.23	
					SD	4.32	1.36	2.11	0.34	0.54	
					n	4	4	4	4	4	
K2000-048	K#250	13831	20		119	38.18	18.3	10.2	5.86		
K2000-049	K#250	13832	20		107	38.66	18.71	10.3	5.69		
K2000-050	K#250	13833	20		101	39.6	18.61	9.33	5.76		
K2000-051	K#250	13834	20		123	41.15	18.93	10.04	5.35		
K#250		Day	20	4	Mean	112.50	39.40	18.64	9.97	5.67	
					SD	10.25	1.31	0.26	0.44	0.22	
					n	4	4	4	4	4	
K2000-048	K#250	13831	25		134	39.53	19.82	10.29	5.75		
K2000-049	K#250	13832	25		134	37.76	19.58	10.86	5.91		
K2000-050	K#250	13833	25		124	39.41	19.87	9.94	6.01		
K2000-051	K#250	13834	25		137	39.75	19.28	10.53	5.63		
K#250		Day	25	4	Mean	132.25	39.11	19.64	10.41	5.83	
					SD	5.68	0.91	0.27	0.39	0.17	
					n	4	4	4	4	4	

**Table 8-20A.** Tissue metal and As concentrations from woodpecker species. Anaconda Smelter Site, 2000. BDL is below detection limit.

SampleID	Sample	BoxID	FieldID	SampleType	N	As µg/g	Cd µg/g	Pb µg/g	Cu µg/g	Zn µg/g
<u>Woodpecker</u>										
K2000-070	Liver	K#215	noband1			0.031	0.033	1.211	7.183	63.411
K2000-073	Liver	K#215	noband2			BDL	1.099	1.665	13.767	88.939
K2000-074	Liver	K#215	noband3			BDL	0.650	0.553	4.227	39.954
K2000-075	Liver	K#215	noband4			BDL	1.594	1.587	7.941	56.128
					4	Mean	0.031	0.844	1.254	8.279
						SD	-	0.664	0.508	3.994
						n	1	4	4	20.398
									4	4
K2000-070	Kidney	K#215	noband1			BDL	0.042	0.590	2.501	14.849
K2000-073	Kidney	K#215	noband2			BDL	1.711	0.650	2.552	16.906
K2000-074	Kidney	K#215	noband3			BDL	1.054	0.318	3.589	19.359
K2000-075	Kidney	K#215	noband4			BDL	0.854	0.383	2.794	18.604
					4	Mean	-	0.915	0.485	2.859
						SD	-	0.688	0.160	0.503
						n	0	4	4	2.003
									4	4
K2000-070	Blood	K#215	noband1			BDL	0.278	0.060	0.318	5.093
<u>Flicker</u>										
K2000-076	Liver	K#229	noband1			0.027	0.206	0.347	5.853	24.022
K2000-077	Liver	K#229	noband2			0.042	0.274	0.267	4.737	17.132
					2	Mean	0.034	0.240	0.307	5.295
						SD	0.011	0.048	0.056	0.789
						n	2	2	2	4.872
									2	2
K2000-076	Kidney	K#229	noband1			0.616	0.382	2.955	4.665	14.633
K2000-077	Kidney	K#229	noband2			5.187	0.255	1.965	NC	NC
					2	Mean	2.901	0.319	2.460	4.665
						SD	3.232	0.089	0.700	-
						n	2	2	1	-
									1	1
K2000-076	Food Item	K#229	noband1			0.634	0.327	2.636	15.954	25.248
K2000-077	Food Item	K#229	noband2			5.031	0.198	4.584	43.456	37.415
					2	Mean	2.833	0.262	3.610	29.705
						SD	3.109	0.092	1.377	31.331
						n	2	2	2	8.603
									2	2